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WEATHER MAP,

1 JAN., 1877.—9 A.M.

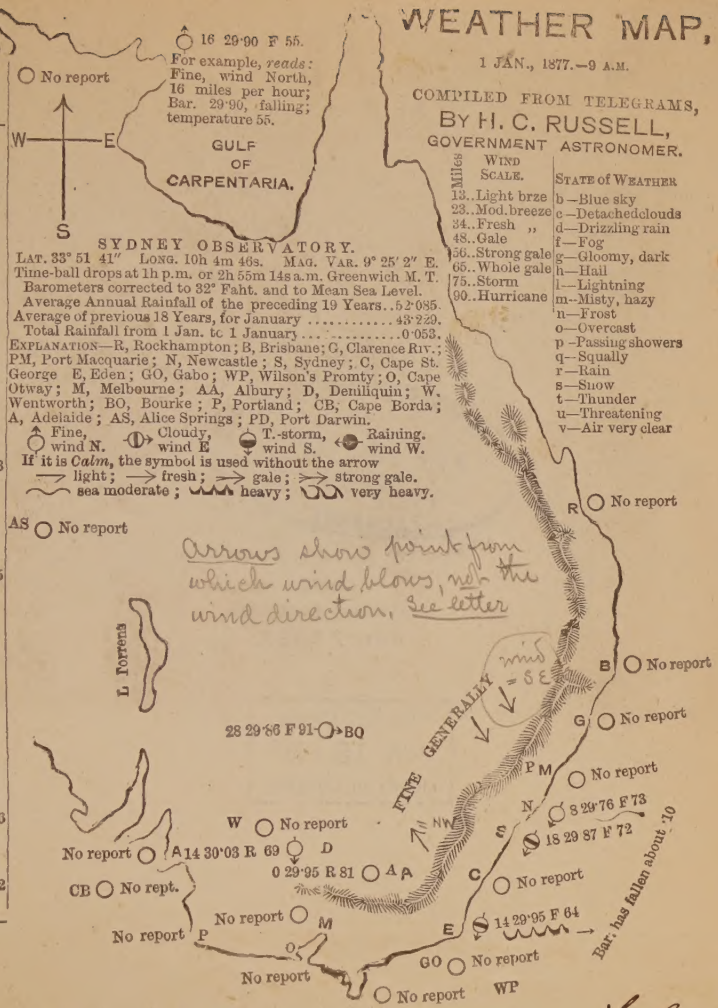
COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	..	..	..	..
Grafton ..	b	99	66	0
Inverell ..	b	91	60	0
Bourke ..	b	108	75	0
Narrabri..	..	..	..	..
Armidale.	b	83	60	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	..	..	..	..
Murr'undi	c	87	60	0
Cassilis ..	b	98	68	0
Mus'brook	c	92	67	0
Dubbo ..	b	94	75	0
Mudgee ..	c	94	65	0
Maitland..	..	..	..	..
Newcastle	b	81	66	0·03
Orange ..	b	92	54	0
Bathurst..	..	..	..	..
MtVictoria	b	82	56	0
Forbes ..	b	90	73	0
SYDNEY ..	g	80	68	0·05
Wentw'th.	..	..	..	..
Young ..	..	..	..	..
Woll'gong	b	78	66	0
Moss Vale	..	..	..	..
Euston ..	b	97	60	0
Goulburn	c	89	56	0
Wagga ..	..	..	..	..
Cape Geo.	..	..	..	..
Queanb'an	b	93	61	0
Deniliquin	b	101	55	0
Albury ..	b	105	61	0·06
Bodalla ..	c	87	65	0
Cooma ..	c	89	55	0
Eden	u	79	62	0·02
Gabo Isld	..	..	..	..

PD



Arrows show point from which wind blows, not the wind direction. See letter

wind = SE

Australia & Victoria no Telegra
uth Wales fine throughout with pr
ly wind on the coast there is a fresh sou
by rainlike clouds passing at Eden
ough

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WEATHER MAP,

2 JAN., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	b	90	55	0·20
Grafton ..	b	107	68	0
Inverell ..	b	92	60	0
Bourke ..	b	107	74	0
Narrabri..	b	100	78	0
Armidale.	b	86	62	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	g	83	70	0
Murr'undi	g	88	61	0
Cassilis ..	b	92	66	0
Mus'brook	g	96	66	0
Dubbo ..	b	94	73	0
Mudgee ..	b	95	64	0
Maitland..	g	84	71	0
Newcastle	r	79	65	0
Orange ..	b	94	51	0
Bathurst..	..	..	..	..
MtVictoria	c	82	50	0
Forbes ..	b	91	69	0
SYDNEY ..	u	79	67	0
Wentw'th.	b	89	60	0
Young ..	..	..	..	..
Woll'gong	c	78	64	0
Moss Vale	..	..	..	..
Euston ..	b	104	65	0
Goulburn	c	88	56	0
Wagga ..	b	94	67	0
Cape Geo.	c	74	65	0
Queanb'an	b	92	58	0·05
Deniliquin	b	90	55	0
Albury ..	b	93	61	0
Bodalla ..	g	81	60	0
Cooma ..	c	81	56	0·03
Eden	b	80	59	0
Gabo Isld	b	66	59	0

PD

No report

W — E
S

16 29·90 F 55.
For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.
LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·035
Average of previous 18 Years, for January ..... 48·229.
Total Rainfall from 1 Jan. to 2 January ..... 0·053.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

Miles	Wind Scale.
13..	Light brze
23..	Mod. breeze
34..	Fresh „
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER
b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

AS No report

L. Torrens

23 29·98 R 86 50

FINE GENERALLY

W 42 30·18 — 71

0 30·15 — 69 A 14 30·08 R 68 D

14 30·03 R 77 AA

CB No rept.

13 30·17 — 62 M

No report P O

8 30·19 — 60

23 29·97 — 58 WP

R No report

B 18 29·84 — 87

G 16 29·82 — 90

PM 56 29·71 — 73

N 12 29·82 R 66 Raining

S 28 29·95 R 69

C 42 30·04 — 66

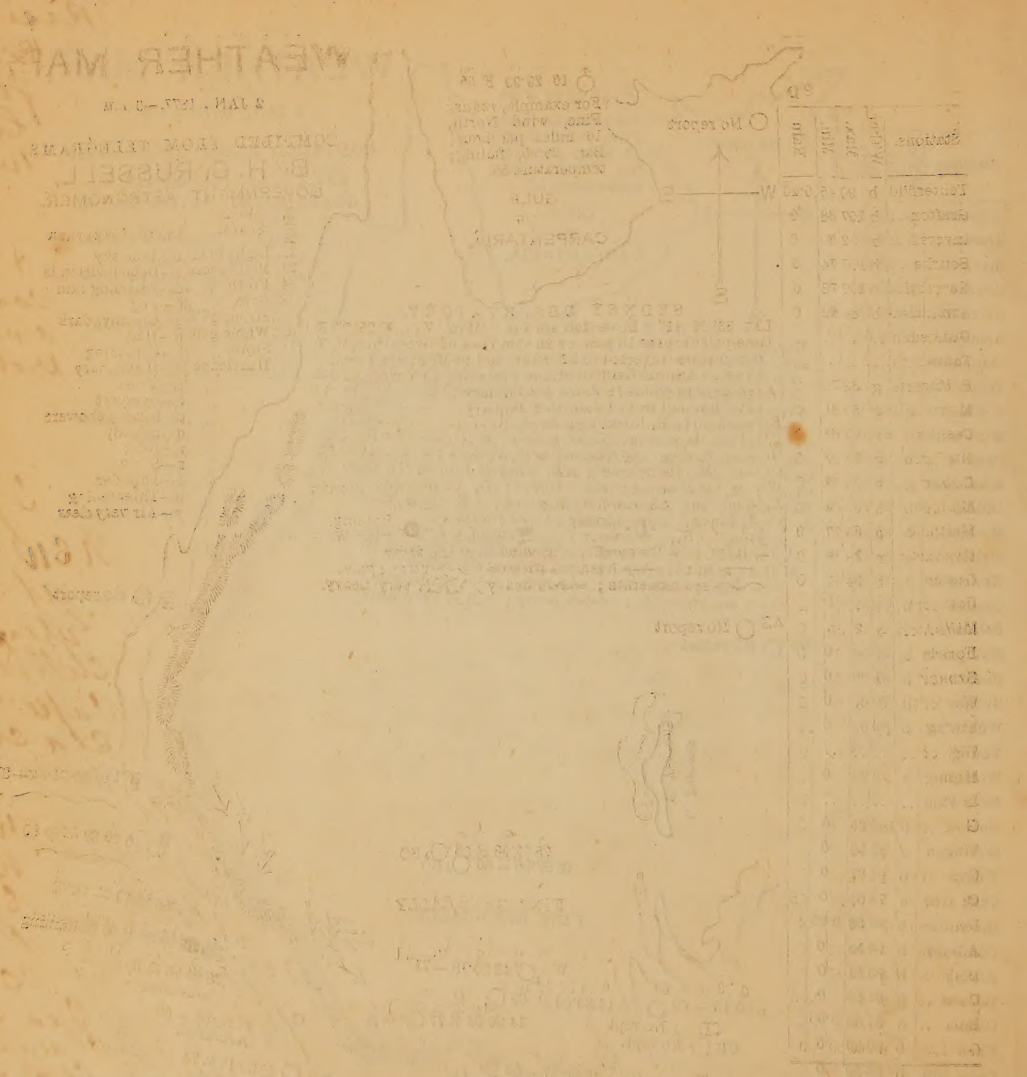
E 42 30·10 R 74

GO 5 29·97 — 62

Bar. barrisch about .10

Sea Sm
Clarence
Sea Sm
are Rising
to north than
and at Eden on

australia Adelaide fine cool Calm
a Barometers Rising Cloudy with light
uth wales Riverina fine Clear with
ng Barometer on the Coast fresh
Raining at Newcastle and South
n Eastward a moderate gradient
the southern Barometers being high
ce to this the Souther Wind continues
Barometer low weather fine clear



WEATHER MAP,

8 JAN., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain
Tenterf'ld	b	72	57	0·10
Grafton ..	c	104	75	0
Inverell ..	c	93	63	0
Bourke ..	b	109	78	0
Narrabri..	u	102	70	0
Armidale.	u	85	65	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	c	74	65	0·87
Murr'undi	u	85	58	0
Cassilis ..	u	91	65	0
Mus'brook	u	91	63	0
Dubbo ..	b	93	63	0
Mudgee ..	c	93	62	0
Maitland..	d	81	65	0·04
Newcastle	b	78	63	0·50
Orange ..	b	85	45	0
Bathurst..	..	..	..	..
MtVictoria	u	78	47	0
Forbes ..	b	90	67	0
SYDNEY ..	r	74	63	0·10
Wentw'th.	b	94	67	0
Young ..	b	93	52	0
Wol'gong	b	76	59	0
Moss Vale	..	..	..	..
Euston ..	b	96	60	0
Goulburn	u	83	59	0
Wagga ..	b	96	67	0
Cape Geo.	c	71	62	0
Queanb'an	c	90	57	0
Deniliquin	b	93	60	0
Albury ..	b	98	56	0
Bodalla ..	c	80	53	0
Cooma ..	b	72	46	0
Eden	b	79	59	0
Gabo Isld	c	73	58	0

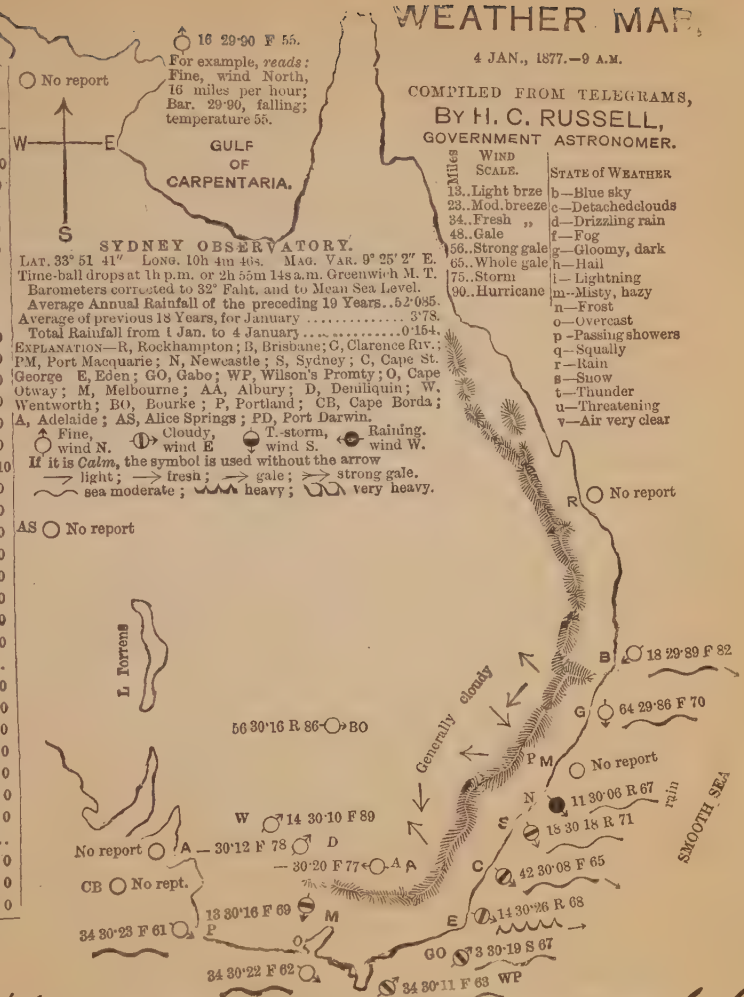
High Pressure and SE. wind - heavy thunderstorms in tropical stations during yesterday evening, turned cloudy before morning and W.S. SE. wind and high barometer - N.S.W. Cloudy rain, thick rain at Sydney - Newcastle & Maitland. Storm northwards - Sea falling at Cape George - wind generally between very hot - light showers since yesterday .13 Jan inch of rain - 3pm - N.S.W. - Squally at Port Macquarie, & Newcastle - heavy sea running at Newcastle - Victoria NW - at Melbourne, and fine weather reported at W

WEATHER MAP.

4 JAN., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	b	76	57	0
Grafton ..	g	95	69	0·60
Inverell ..	b	88	65	0
Bourke ..	b	102	76	0
Narrabri..	c	93	62	0
Armidale.	u	79	62	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	—
P. Macqrie	..	..	..	..
Murr'undi	u	74	56	0
Cassilis ..	g	78	63	0
Mus'brook	g	76	60	0
Dubbo ..	b	91	65	0
Mudgee ..	g	86	60	0
Maitland..	d	74	64	0
Newcastle	r	76	65	1·10
Orange ..	b	91	47	0
Bathurst..	b	80	58	0
Mt Victoria	u	60	49	0
Forbes ..	..	87	63	0
SYDNEY ..	c	72	65	0
Wentw'th.	b	101	67	0
Young ..	b	84	52	0
Wol'gong	b	74	62	0
Moss Vale	..	..	..	..
Euston ..	b	103	67	0
Goulburn	u	79	52	0
Wagga ..	b	91	63	0
Cape Geo.	c	76	64	0
Queanb'an	c	86	51	0
Deniliquin	b	..	68	0
Albury ..	b	100	55	0
Bodalla ..	..	..	..	..
Cooma ..	b	77	38	0
Eden	b	75	61	0
Gabo Isld.	c	74	61	0



falling slightly, Cloudy at PD. with Thunderstorm last night
and NW. at PD — Victoria - Cloudy at WS this morning with
t other stations, slight fall of barometer throughout — NSW
d - NE wind at Deniliquin & Wentworth with fine weather. rain
nd - heavy sea at Eden - Queensland - Showery weather
with NE wind. & SW. at 9am with Thr. Storms — 3pm
Sydney: thick rain at Newcastle & Port Macquarie, rain
ower - fine & hot in the interior - heavy sea at Eden -

WEATHER MAP,

5 JAN., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Tenterfield	p	71	40	0·23
Grafton ..	r	82	..	0
Inverell ..	..	..	..	..
Bourke ..	b	100	75	0
Narrabri..	g	89	66	0
Armidale.	b	70	60	0·03
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	r	74	72	0·51
Murr'undi	o	72	57	0
Cassilis ..	b	76	64	0
Mus'brook	o	70	62	0
Dubbo ..	b	87	65	0
Mudgee ..	o	86	60	0
Maitland..	o	70	65	0·23
Newcastle	p	76	63	0·17
Orange ..	c	79	44	0
Bathurst..	c	80	..	0
MtVictoria	c	67	50	0
Forbes ..	..	..	..	..
SYDNEY ..	o	72	63	0
Wentw'th.	b	104	62	0
Young ..	g	83	56	0
Wol'gong	b	74	61	0
Moss Vale	..	..	..	..
Euston ..	b	113	62	0
Goulburn	o	74	49	0
Wagga ..	b	86	57	0
Cape Geo.	c	74	65	0
Queanb'an	b	83	54	0
Deniliquin	b	104	64	0
Albury ..	b	101	65	0
Bodalla ..	c	77	52	0
Cooma ..	c	77	42	0
Eden	c	76	60	0
Gabo Isld	b	73	61	0

PD

16 29·90 F 55.
For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

W — E
S

SYDNEY OBSERVATORY.
LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Fahr. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085
Average of previous 18 Years, for January ..... 2·78.
Total Rainfall from 1 Jan. to 5 January ... .0·154.
EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. — Cloudy, wind E — T.-storm, wind S. — Raining, wind W.

If it is *Calm*, the symbol is used without the arrow
light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

Wind Scale.
Miles
13..Light brze
23..Mod. breeze
34..Fresh „
48..Gale
56..Strong gale
65..Whole gale
75..Storm
90..Hurricane

State of Weather
b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS

L Torrens

42 30·09 F 84 BO

Generally cloudy

B 13 29·84 F 82

G 70 29·82 F 73

P M 42 29 96 — 72

N 6 30·01 F 66

Raining

S 11 30 06 F 72

C 42 30·08 S 66

E 14 30·12 F 69

GO 28 30 07 F 71

WP

W 28 30·17 R 71

D

A 14 30·15 F 75

0 30·11 F 78 AA

CB

18 30·20 R 70

28 30·33 R 63 P

Bar. has risen about .10

8 30·31 R 64

13 30·12 R 63

Bar. has fallen about .10

SMOOTH SEA

New So
Fine Clear
in Rivers
Eden
Cape
Sydney
Newcastle
Cloudy
Clear
gale from
with S
heavy

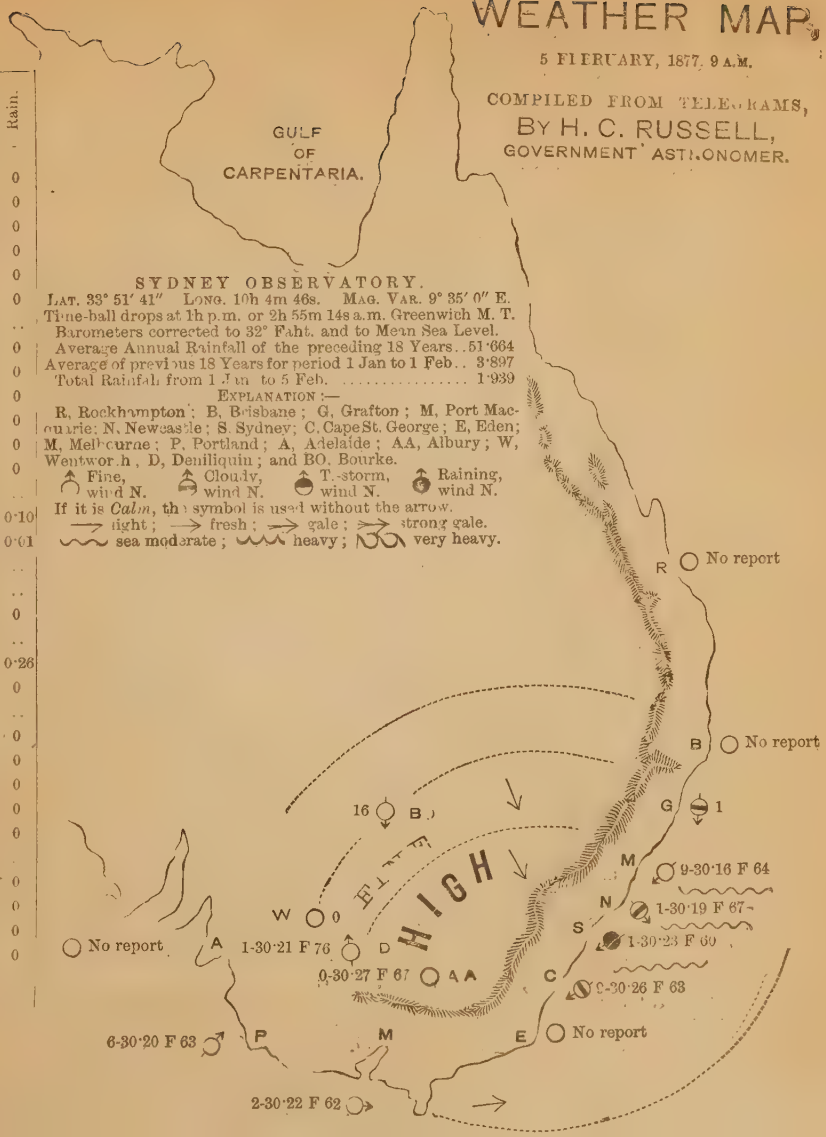
Fine clear at adelaide heavy S E gale at
rally with S E terly winds
Cloudy Generally inland Cloudy with wi
et and Kartwgrdy from Newcastle Rain
ner there is a heavy S E gale & Sea
S autherly winds fine & warm
ations Barometer Rising slowly weather generall
S to S E but fresh westerly at Wilsons Promontor

WEATHER MAP,

5 FEBRUARY, 1877, 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	71	47	0
Grafton ..	87	54	0
Inverell ..	92	52	0
Bourke ..	12	62	0
Narrabri ..	91	59	0
Armidale .	78	53	0
Gunnedah	..	..	..
Tamworth	79	60	0
P. Macqrie	73	60	0
Murr'undi	94	51	0
Cassilis ..	80	58	0
Mus'brook	79	57	0
Dubbo ..	83	62	0
Mudgee .	..	..	..
Maitland..	76	55	0·10
Newcastle	73	59	0·01
Orange ..	..	..	..
Bathurst..	..	..	..
Mt Victoria	69	43	0
Forbes ..	..	..	..
SYDNEY ..	65	59	0·26
Wentw'th.	97	..	0
Young ..	..	..	..
Wol'gong	76	54	0
Goulburn	76	47	0
Wagga ..	86	58	0
Cape Geo.	69	61	0
Queanb'an	82	50	0
Urana....	..	..	.
Deniliquin	91	58	0
Albury ..	93	45	0
Bodalla ..	82	52	0
Cooma ..	78	..	0
Eden			



WEATHER MAP,

7 FEBRUARY, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

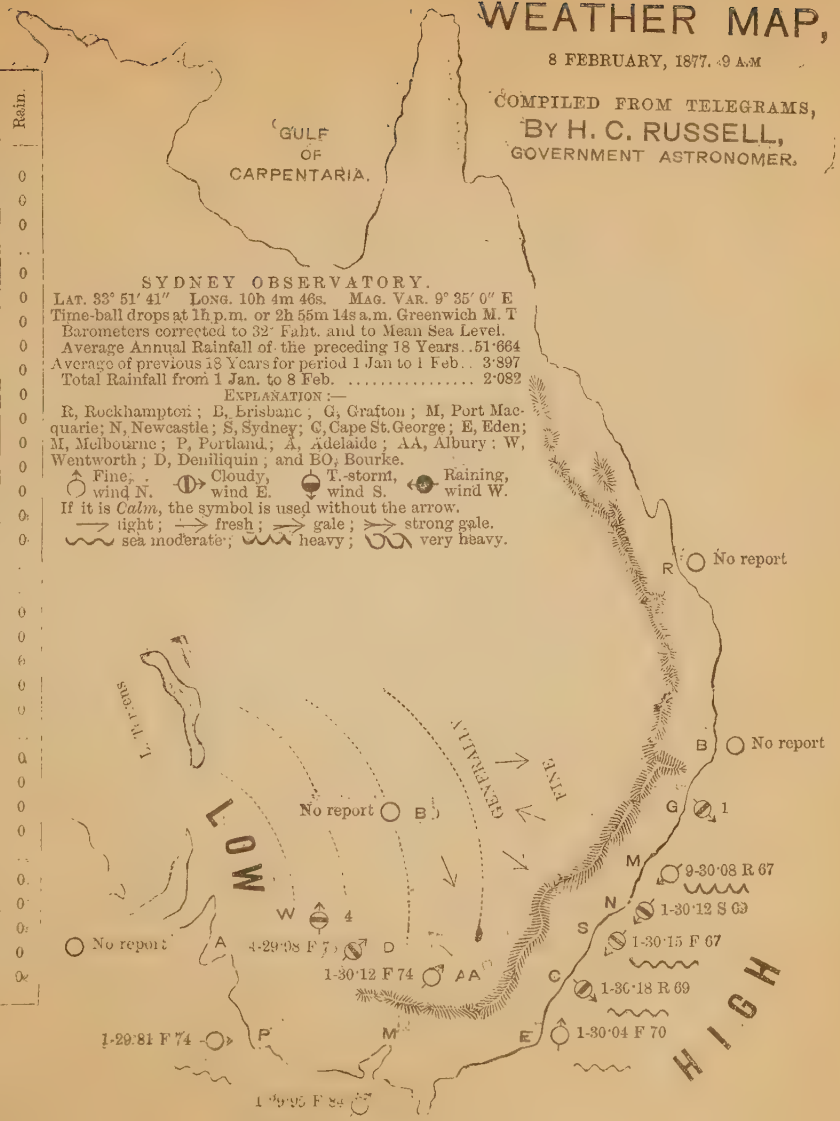
Stations.	Max.	Min.	Rain.
Tenterfi'ld	76	55	0
Grafton ..	94	54	0
Inverell ..	86	57	0
Bourke ..	95	69	0
Narrabri ..	97	65	0
Armidale .	76	57	0
Gunnedah	..	..	..
Tamworth	89	54	0
P. Macqrie	76	60	0·17
Murr'undi	94	51	0
Cassilis ..	78	59	0
Mus'brook	84	58	0
Dubbo ..	81	60	0
Maitland ..	80	63	0
Newcastle	76	62	0
Orange ..	79	54	0
Bathurst ..	86	55	0
MtVictoria	..	..	..
Forbes ..	86	65	0
SYDNEY ..	70	62	0
Wentw'th.	107	..	0
Young ..	84	56	0
Woll'gong	76	60	0
Euston ..	104	70	0
Goulburn	80	55	0
Wagga ..	89	62	0
Cape Geo.	70	62	0
Queanb'an	84	54	0
Urana....	..	..	..
Deniliquin	101	67	0
Albury ..	93	56	0
Bodalla ..	80	53	..
Cooma ..	81	42	0
Eden	74	60	0

WEATHER MAP,

8 FEBRUARY, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	75	50	0
Grafton ..	91	56	0
Inverell ..	85	53	0
Bourke ..	..	..	..
Narrabri ..	91	65	0
Armidale .	74	51	0
Gunnedah	90	58	0
Tamworth	89	56	0
P. Macqrie	76	58	0
Murr'undi	91	43	0
Cassilis ..	84	53	0
Mus'brook	82	51	0
Dubbo ..	80	61	0
Maitland..	73	60	0
Newcastle	75	62	0
Orange ..	79	52	0
Bathurst..	..	..	.
MtVictoria	..	..	.
Forbes ..	82	62	0
SYDNEY ..	71	60	0
Wentw'th.	107	..	0
Young ..	83	55	0
Woll'gong	76	63	0
Euston ..	..	..	..
Goulburn	75	45	0
Wagga ..	85	61	0
Cape Geo.	72	63	0
Queanb'an	79	52	0
Yass	..	..	..
Deniliquin	100	72	0
Albury ..	98	54	0
Rodalla ..	76	52	0
Cooma ..	81	42	0
Eden	74	58	0

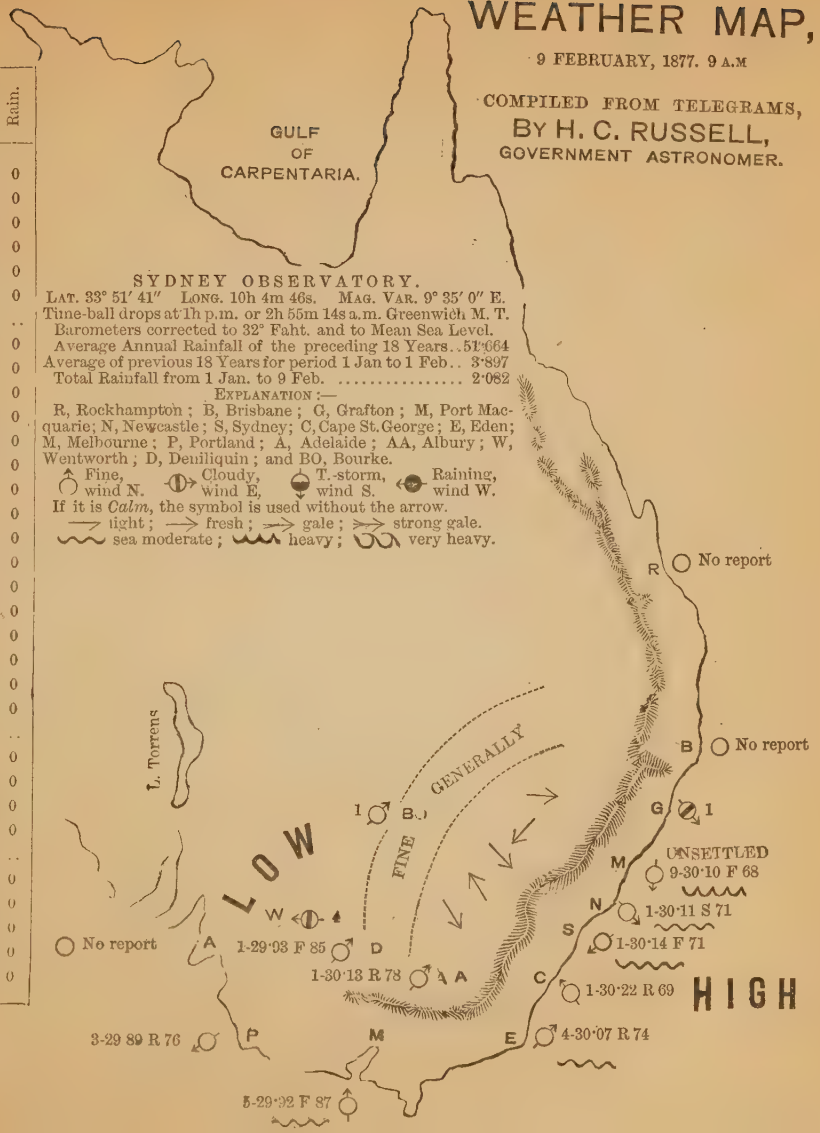


WEATHER MAP,

9 FEBRUARY, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	75	53	0
Grafton ..	92	62	0
Inverell ..	82	55	0
Bourke ..	103	71	0
Narrabri ..	94	62	0
Armidale .	75	54	0
Gunnedah	..	..	..
Tamworth	87	55	0
P. Macqrie	76	60	0
Murr'undi	91	51	0
Cassilis ..	85	54	0
Mus'brook	87	58	0
Dubbo ..	81	62	0
Maitland..	79	60	0
Newcastle	77	64	0
Orange ..	79	39	0
Bathurst..	91	46	0
MtVictoria	72	43	0
Forbes ..	87	64	0
SYDNEY ..	72	61	0
Wentw'th.	105	..	0
Young ..	87	57	0
Woll'gong	71	65	0
Euston ..	..	..	..
Goulburn	83	47	0
Wagga ..	90	65	0
Cape Geo.	75	61	0
Queanb'an	85	52	0
Urana....	..	..	..
Deniliquin	103	73	0
Albury ..	100	57	0
Bodalla ..	85	46	0
Cooma ..	84	42	0
Eden	76	61	0



SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 35′ 0″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 18 Years.. 51·664

Average of previous 18 Years for period 1 Jan to 1 Feb.. 3·897

Total Rainfall from 1 Jan. to 9 Feb. ..... 2·082

EXPLANATION :—

R, Rockhampton ; B, Brisbane ; G, Grafton ; M, Port Macquarie; N, Newcastle ; S, Sydney; C, Cape St. George ; E, Eden; M, Melbourne ; P, Portland ; A, Adelaide ; AA, Albury ; W, Wentworth ; D, Deniliquin ; and BO, Bourke.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light ; fresh ; gale ; strong gale.

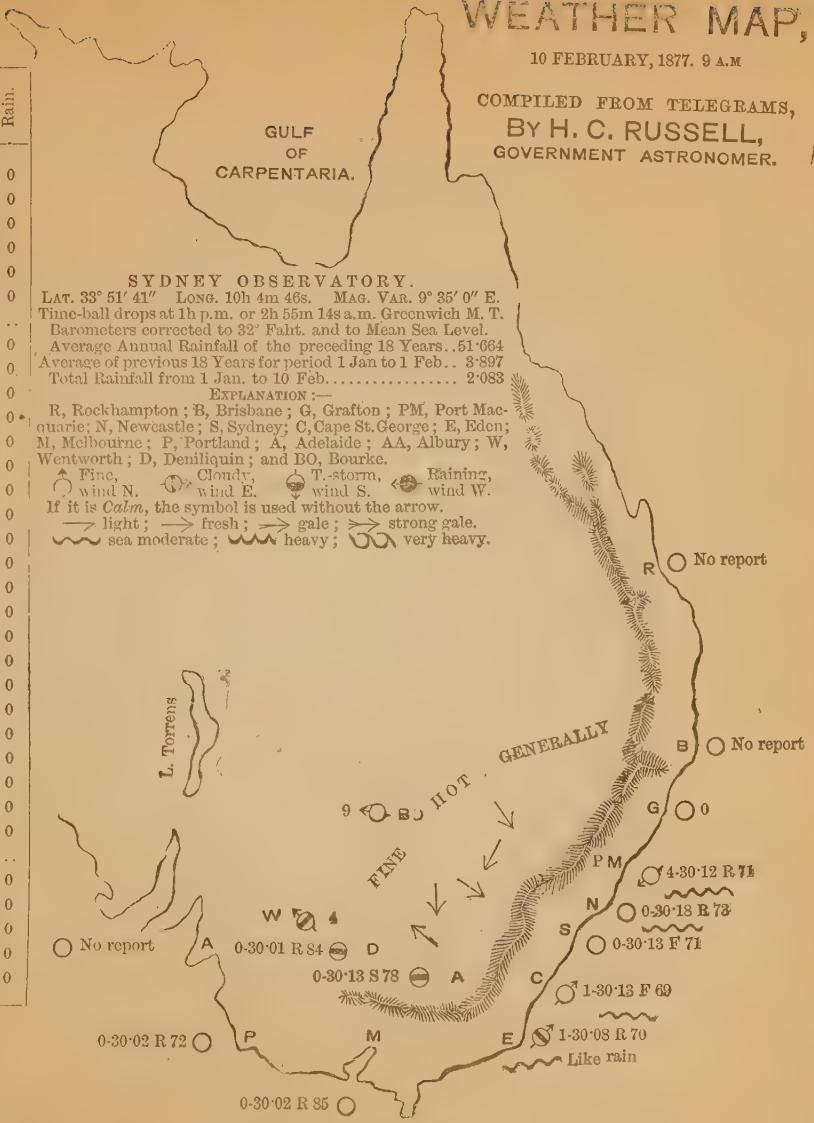
sea moderate ; heavy ; very heavy.

WEATHER MAP,

10 FEBRUARY, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	75	51	0
Grafton ..	94	59	0
Inverell ..	82	53	0
Bourke ..	95	67	0
Narrabri ..	98	55	0
Armidale .	73	55	0
Gunnedah	..	..	..
Tamworth	89	53	0
P. Macqrie	77	61	0
Murr'undi	91	50	0
Cassilis ..	84	53	0
Mas'brook	90	55	0
Dubbo ..	83	63	0
Maitland..	85	58	0
Newcastle	76	60	0
Orange ..	82	54	0
Bathurst..	92	50	0
MtVictoria	80	51	0
Forbes ..	87	67	0
SYDNEY ..	74	60	0
Wentw'th.	105	..	0
Young ..	88	61	0
Woll'gong	71	60	0
Euston ..	109	75	0
Goulburn	90	51	0
Wagga ..	95	68	0
Cape Geo.	76	62	0
Queanb'an	91	60	0
Urana....	..	..	..
Deniliquin	108	80	0
Albury ..	103	66	0
Bodalla ..	84	54	0
Cooma ..	94	50	0
Eden	77	64	0



SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 35′ 0″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Fahr. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664
Average of previous 18 Years for period 1 Jan to 1 Feb.. 3·897
Total Rainfall from 1 Jan. to 10 Feb..... 2·083

EXPLANATION :—

R, Rockhampton ; B, Brisbane ; G, Grafton ; PM, Port Macquarie; N, Newcastle ; S, Sydney; C, Cape St. George ; E, Eden; M, Melbourne ; P, Portland ; A, Adelaide ; AA, Albury ; W, Wentworth ; D, Deniliquin ; and BO, Bourke.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light ; fresh ; gale ; strong gale.

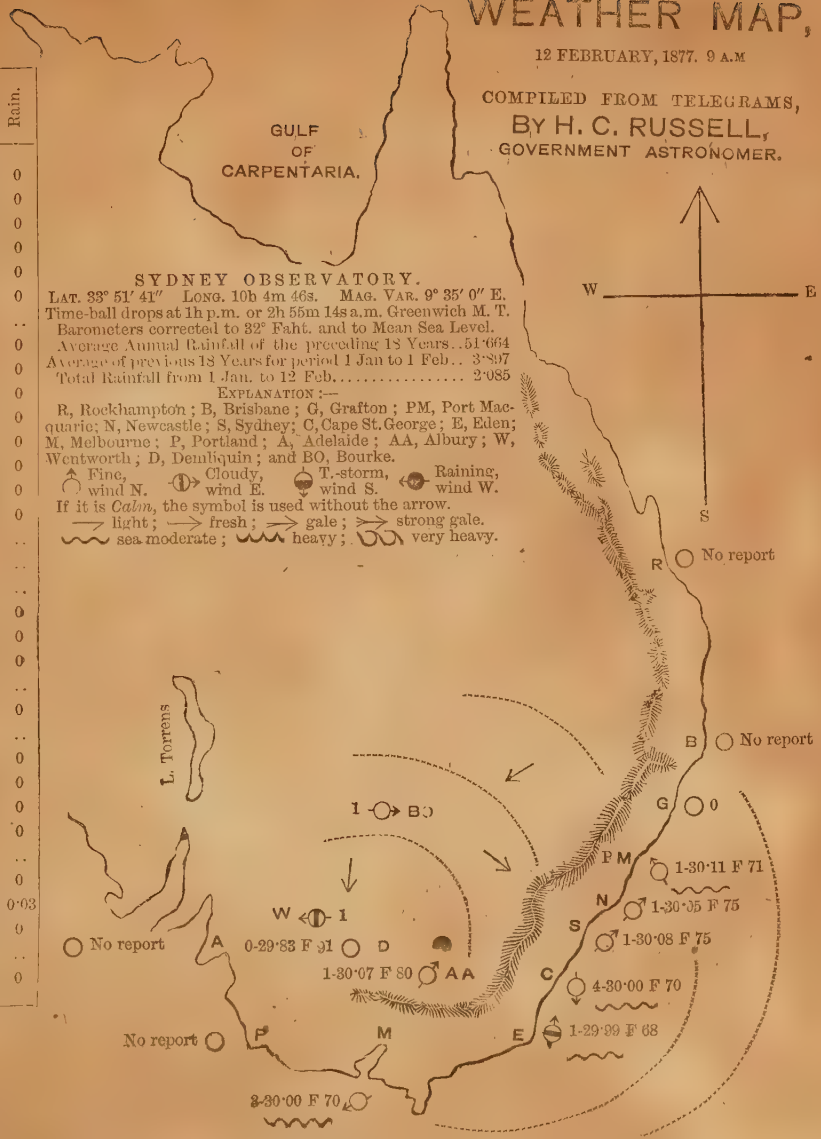
sea moderate ; heavy ; very heavy.

WEATHER MAP,

12 FEBRUARY, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfl'ld	76	52	0
Grafton ..	95	58	0
Inverell ..	86	57	0
Bourke ..	102	74	0
Narrabri ..	102	64	0
Armidale .	79	55	0
Gunnedah	..	..	..
Tamworth	93	59	0
P. Macqrie	79	62	0
Berr'undi	91	47	0
Cassilis ..	95	59	0
[illegible]brook	94	59	0
Dubbo ..	91	66	0
[illegible]land..	89	59	0
Newcastle	78	63	0
Orange ..	..	..	..
Bathurst..	..	..	..
Mt Victoria	..	..	..
Forbes ..	83	..	0
SYDNEY ..	76	60	0
Wentw'th.	98	..	0
Young ..	..	..	..
Woll'gong	81	60	0
Euston ..	..	..	..
Goulburn	93	52	0
Wagga ..	99	70	0
Cape Geo.	77	62	0
Queanb'an	94	58	0
Urana....	..	..	..
Deniliquin	109	72	0
Albury ..	107	60	0·03
Bodalla ..	84	51	0
Cooma ..	..	..	..
Eden	76	64	0



SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 35′ 0″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 18 Years..51·664

Average of previous 18 Years for period 1 Jan to 1 Feb.. 3·897

Total Rainfall from 1 Jan. to 12 Feb..... 2·085

EXPLANATION :—

R, Rockhampton ; B, Brisbane ; G, Grafton ; PM, Port Macquarie; N, Newcastle ; S, Sydney; C, Cape St. George ; E, Eden; M, Melbourne ; P, Portland ; A, Adelaide ; AA, Albury ; W, Wentworth ; D, Deniliquin ; and BO, Bourke.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light ; fresh ; gale ; strong gale.

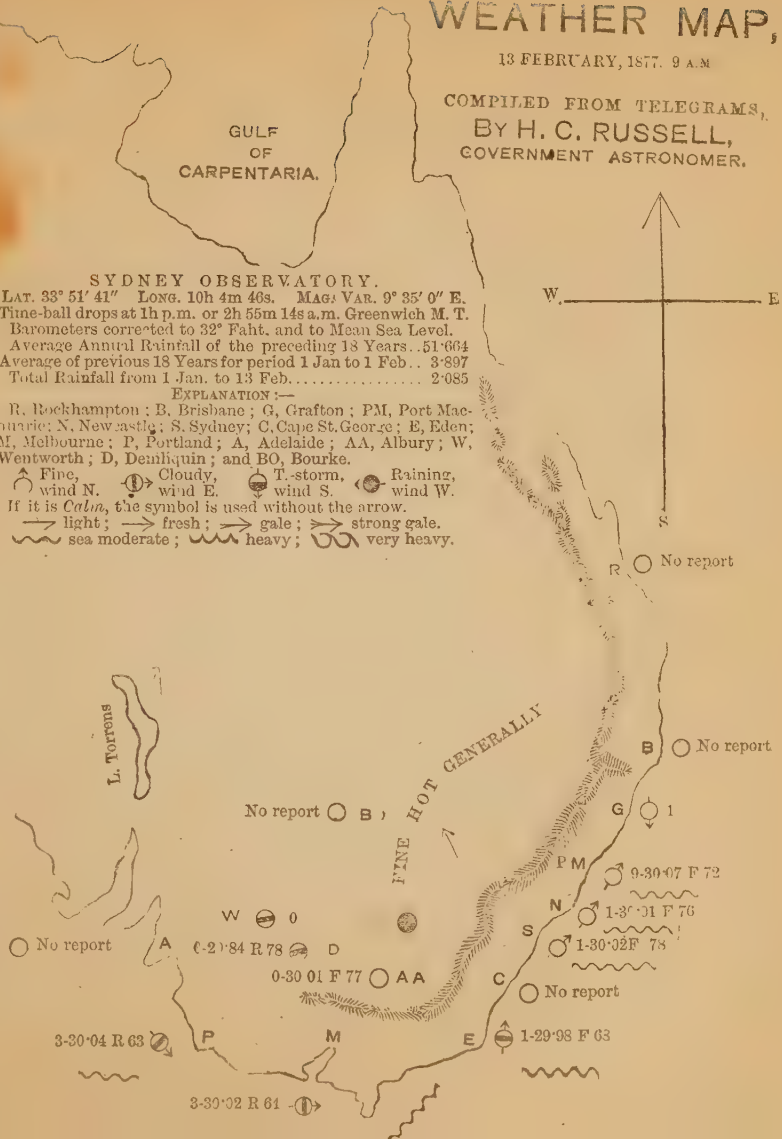
sea moderate ; heavy ; very heavy.

WEATHER MAP,

13 FEBRUARY, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	82	50	0
Grafton ..	96	58	0
Inverell ..	94	58	0
Bourke ..	..	..	..
Narrabri ..	101	70	0
Armidale .	81	59	0
Gunnedah	..	..	..
Tamworth	94	60	0
P. Macqrie	80	62	0
Murr'undi	..	..	..
Cassiiis ..	97	65	0
Mus'brook	99	65	0
Dubbo ..	93	73	0
Maitland ..	87	67	0
Newcastle	79	63	0
Orange ..	89	66	0
Bathurst ..	97	61	0
MtVictoria	..	..	..
Forbes ..	96	75	0
SYDNEY ..	78	68	0
Wentw'th.	107	..	0
Young ..	97	75	0
Woll'gong	81	60	0
Euston ..	..	..	..
Goulburn	96	62	0
Wagga ..	106	72	0
Cape Geo	..	..	..
Queanb'an	97	67	0
Urana	..	..	..
Deniliquin	106	70	0
Albury .	112	66	0·07
Bodalla .	82	55	0·52
Cooma .	92	53	0·02
Eden	74	65	0·01



SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 35′ 0″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664
Average of previous 18 Years for period 1 Jan to 1 Feb.. 3·897
Total Rainfall from 1 Jan. to 13 Feb..... 2·085

EXPLANATION :—

R, Rockhampton ; B, Brisbane ; G, Grafton ; PM, Port Macquarie; N, Newcastle ; S, Sydney; C, Cape St. George ; E, Eden; M, Melbourne ; P, Portland ; A, Adelaide ; AA, Albury ; W, Wentworth ; D, Deniliquin ; and BO, Bourke.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light ; fresh ; gale ; strong gale.

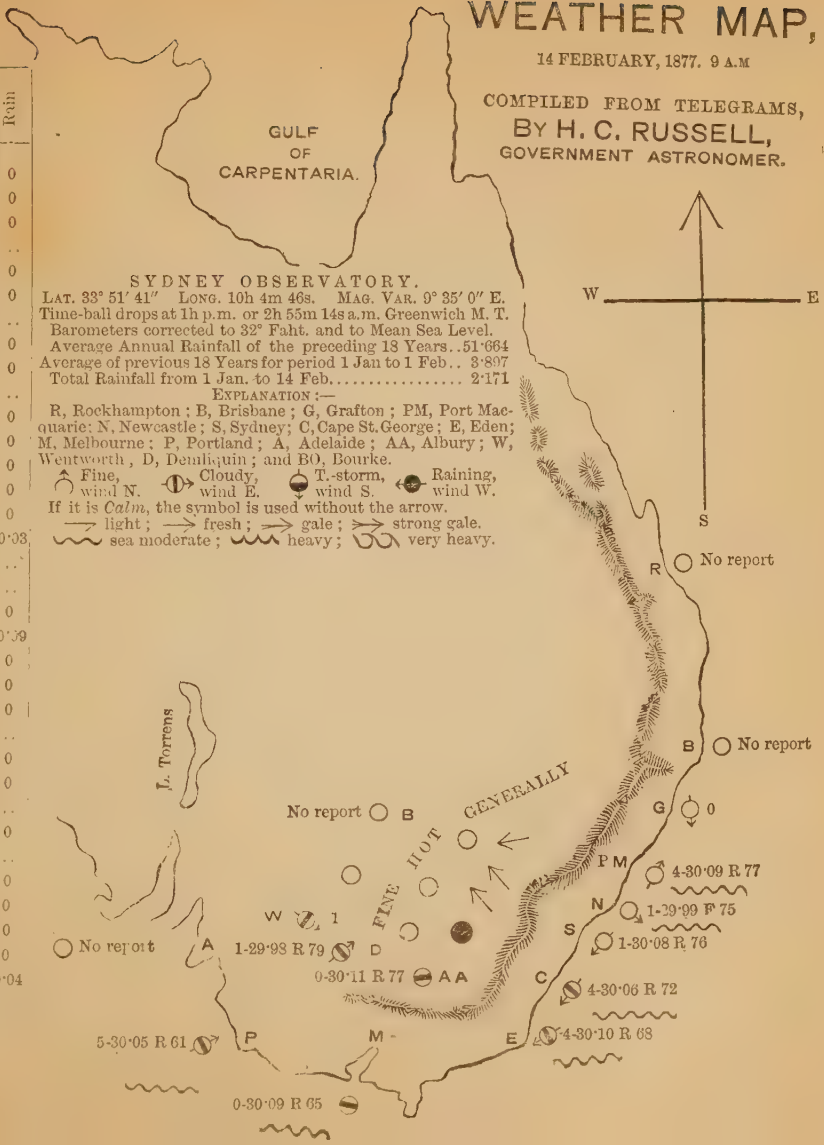
sea moderate ; heavy ; very heavy.

WEATHER MAP,

14 FEBRUARY, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max	Min.	Rain
Tenterfi'ld	85	53	0
Grafton ..	96	64	0
Inverell ..	87	54	0
Bourke ..	..	..	..
Narrabri ..	103	70	0
Armidale .	83	62	0
Gunnedah	..	..	..
Tamworth	98	65	0
P. Macqrie	83	69	0
Murr'undi	95	50	..
Cassilis ..	99	76	0
Mus'brook	107	73	0
Dubbo ..	93	73	0
Maitland..	97	78	0
Newcastle	82	70	0
Orange ..	90	68	0·03
Bathurst..	..	..	..
MtVictoria	..	..	..
Forbes ..	99	77	0
SYDNEY ..	81	71	0·09
Wentw'th.	96	..	0
Young ..	96	64	0
Woll'gong	81	65	0
Euston ..	..	..	..
Goulburn	98	61	0
Wagga ..	99	71	0
Cape Geo	79	69	..
Queanb'an	95	65	0
Urana....	..	..	..
Deniliquin	91	68	0
Albury ..	93	62	0
Bodalla ..	86	59	0
Cooma ..	82	56	0
Eden ..	75	66	0·04

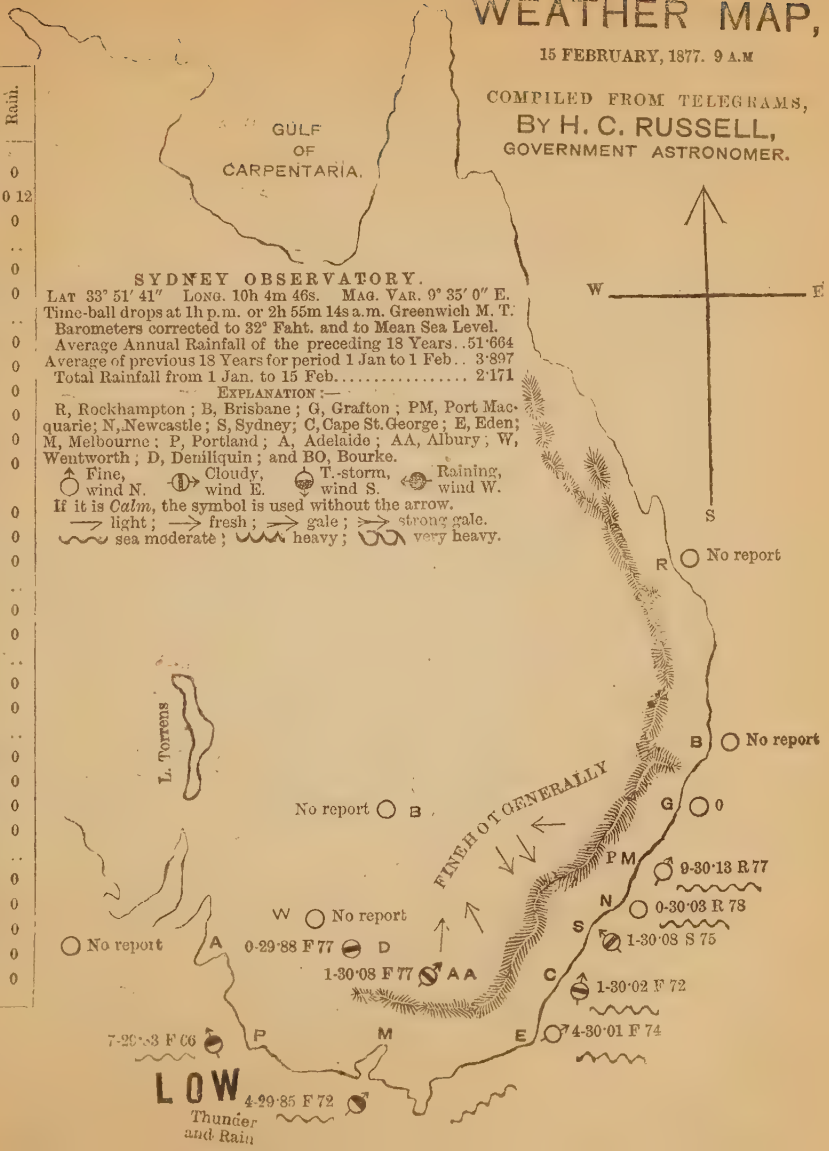


WEATHER MAP,

15 FEBRUARY, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	87	53	0
Grafton ..	99	67	0 12
Inverell ..	91	63	0
Bourke ..	..	..	..
Narrabri ..	103	75	0
Armidale .	87	64	0
Gunnedah	..	..	..
Tenterfi'ld	102	68	0
P. Macqrie	83	69	0
Murr'undi	96	47	0
Cassilis ..	97	69	0
Mus'brook	110	75	0
Dubbo ..	94	73	0
Maitland..	95	75	
Newcastle	82	71	0
Orange ..	92	59	0
Bathurst..	102	62	0
MtVictoria	..	..	..
Forbes ..	101	80	0
SYDNEY ..	..	..	0
Wentw'th.	..	..	..
Young ..	98	73	0
Woll'gong	81	65	0
Euston ..	..	..	..
Goulburn	101	65	0
Wagga ..	103	72	0
Cape Geo.	89	68	0
Queanb'an	100	67	0
Urana ..		..	..
Deniliquin	94	69	0
Albury ..	103	64	0
Bodalla ..	76	60	0
Booma ..	93	74	0
Eden	75	66	0



SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 35′ 0″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664
Average of previous 18 Years for period 1 Jan to 1 Feb.. 3·897
Total Rainfall from 1 Jan. to 15 Feb..... 2·171

EXPLANATION :—

R, Rockhampton ; B, Brisbane ; G, Grafton ; PM, Port Macquarie; N, Newcastle ; S, Sydney; C, Cape St. George ; E, Eden; M, Melbourne ; P, Portland ; A, Adelaide ; AA, Albury ; W, Wentworth ; D, Deniliquin ; and BO, Bourke.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light ; fresh ; gale ; strong gale.

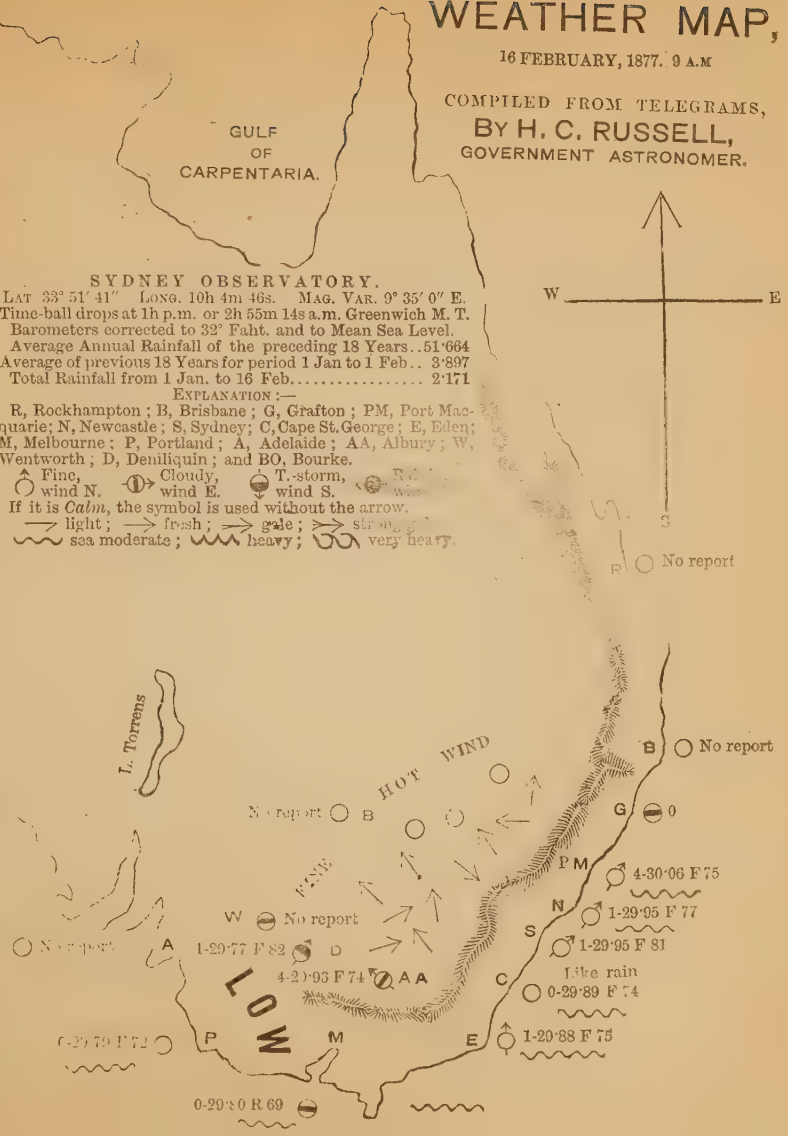
sea moderate ; heavy ; very heavy.

WEATHER MAP,

16 FEBRUARY, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	82	53	0
Grafton ..	97	60	0
Inverell ..	91	61	0
Bourke ..	..	..	..
Narrabri ..	101	73	0
Armidale .	83	63	0
Gunnedah	..	..	..
Tamworth	99	63	0
P. Macqrie	82	69	0
Murr'undi	94	44	0
Cassilis ..	103	61	0
Mus'brook	116	71	0
Dubbo ..	96	75	0
Maitland ..	93	76	0
Newcastle	86	69	0
Orange ..	89	63	0
Bathurst ..	99	59	0
Mt Victoria	..	..	..
Forbes ..	98	71	0
SYDNEY .	..	..	..
Wentw'th.	97	..	0
Young ..	96	65	0
Wo.l'gong	81	65	0
Euston ..	..	..	..
Goulburn	99	60	0·35
Wagga ..	101	70	0
[illegible]	78	69	0·05
[illegible]	102	65	0
[illegible]	.	.	..
Deniliquin	100	69	0·04
[illegible]	1[illegible]	62	0
[illegible]	92	72	0·[illegible]
[illegible]	13	55	0
[illegible]	9[illegible]	[illegible]	

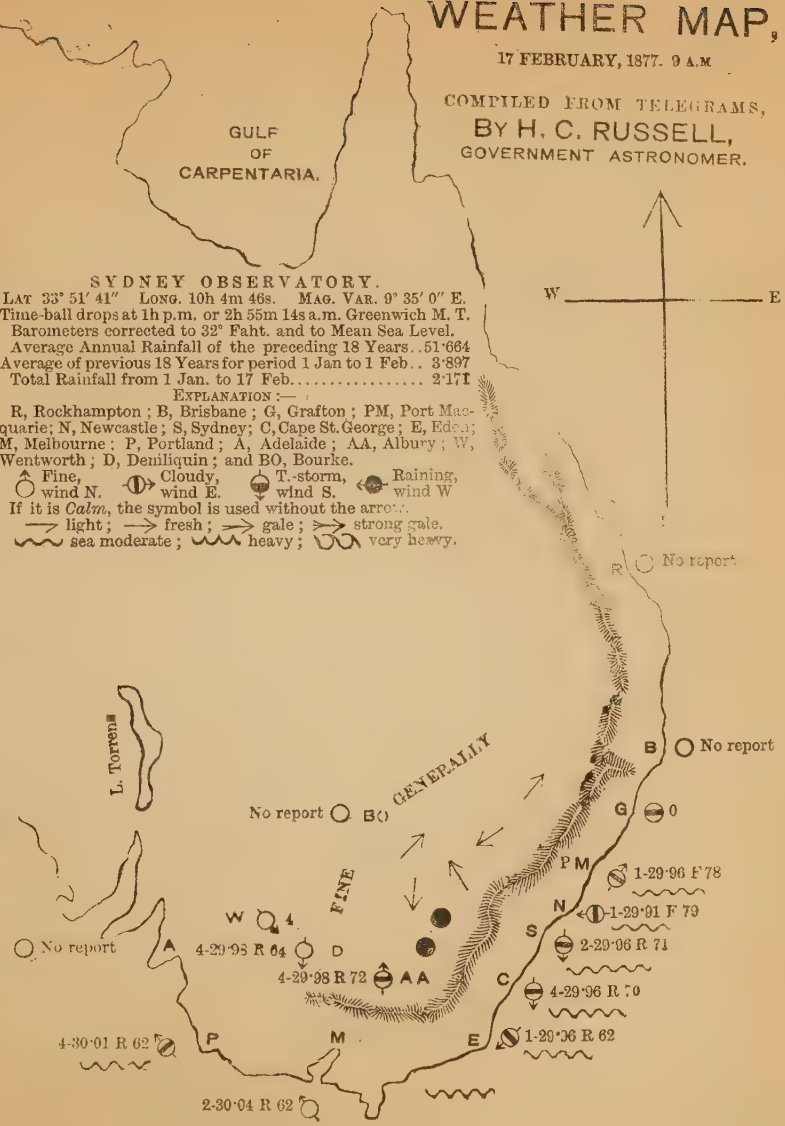


WEATHER MAP,

17 FEBRUARY, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	80	84	0
Grafton ..	88	64	0
Inverell ..	90	64	0
Bourke ..	..	..	..
Narrabri ..	98	73	0
Armidale .	81	59	0
Gunnedah	..	..	..
Tamworth	92	65	0
P. Macqrie	82	68	0
Murr'undi	91	43	0
Cassilis ..	95	69	0
Mus'brook	106	74	0
Dubbo ..	94	74	0
Maitland..	100	75	0
Newcastle	93	70	0
Orange ..	86	44	0·08
Bathurst..	..	..	..
Mt Victoria	..	..	..
Forbes ..	99	70	0·05
SYDNEY ..	88	69	0
Wentw'th.	101	..	0
Young ..	95	64	0
Woll'gong	84	65	0
Euston ..	..	..	..
Goulburn	94	63	0·06
Wagga ..	104	62	0·13
Cape Geo.	86	68	0
Queanb'an	96	66	0·10
Urana....	..	..	..
Deniliquin	94	57	0·14
Albury ..	100	64	0
Bodalla ..	96	63	0·54
Cooma ..	94	59	0
Eden	81	60	0·11

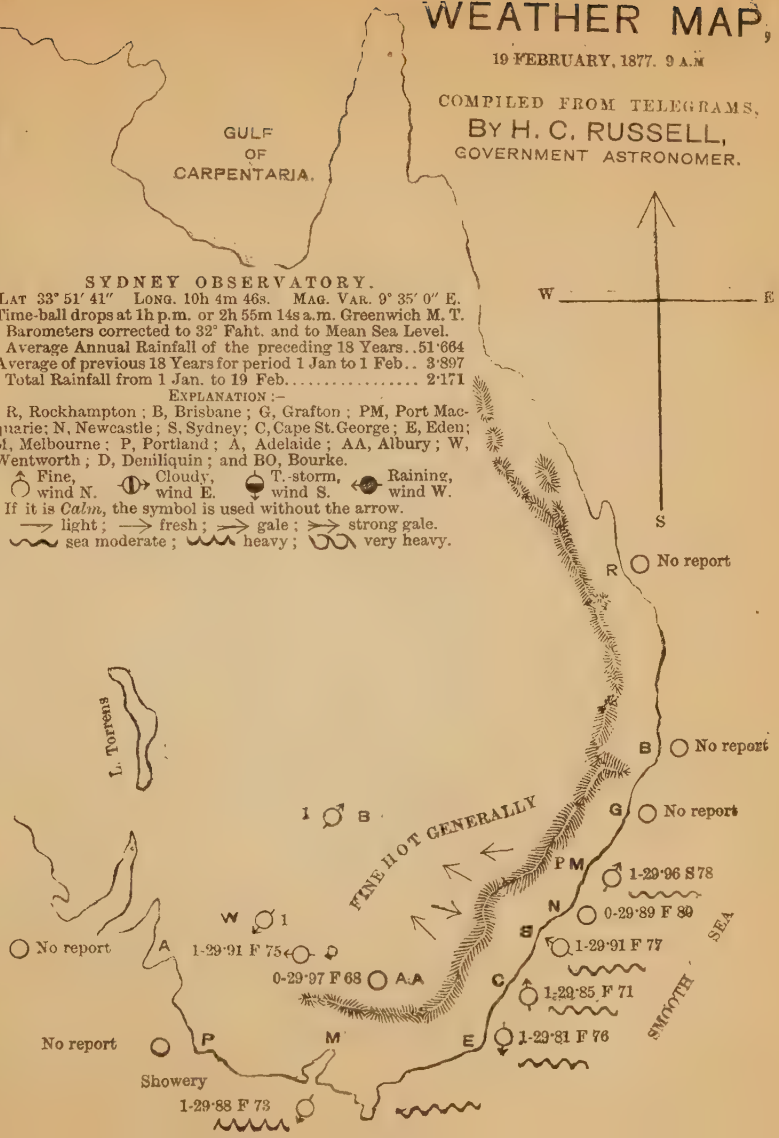


WEATHER MAP,

19 FEBRUARY, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	83	55	0·15
Grafton	..	..	.
Inverell	90	63	0
Bourke	116	69	0
Narrabri	90	69	0
Armidale	88	63	0
Gunnedah	..	..	..
Tamworth	92	60	0
P. Macqrie	84	69	0
Murr'undi	94	45	0
Cassilis	99	66	0
Mus'brook	104	65	0
Dubbo	91	68	0
Maitland	95	76	0
Newcastle	97	57	0
Orange	80	44	0
Bathurst	..	..	0·09
Mt Victoria	..	..	..
Forbes	87	60	0
SYDNEY	89	70	0
Wentw'th.	97	..	0
Young	86	53	0
Woll'gong	84	65	0
Euston	..	..	..
Goulburn	89	50	0
Wagga	94	56	0
Cape Geo.	81	65	0
Queanb'an	90	53	0
Urana	..	..	..
Deniliquin	81	52	0
Albury	88	46	0
Bodalla	87	49	0
Cooma	89	49	0
Eden	77	61	0

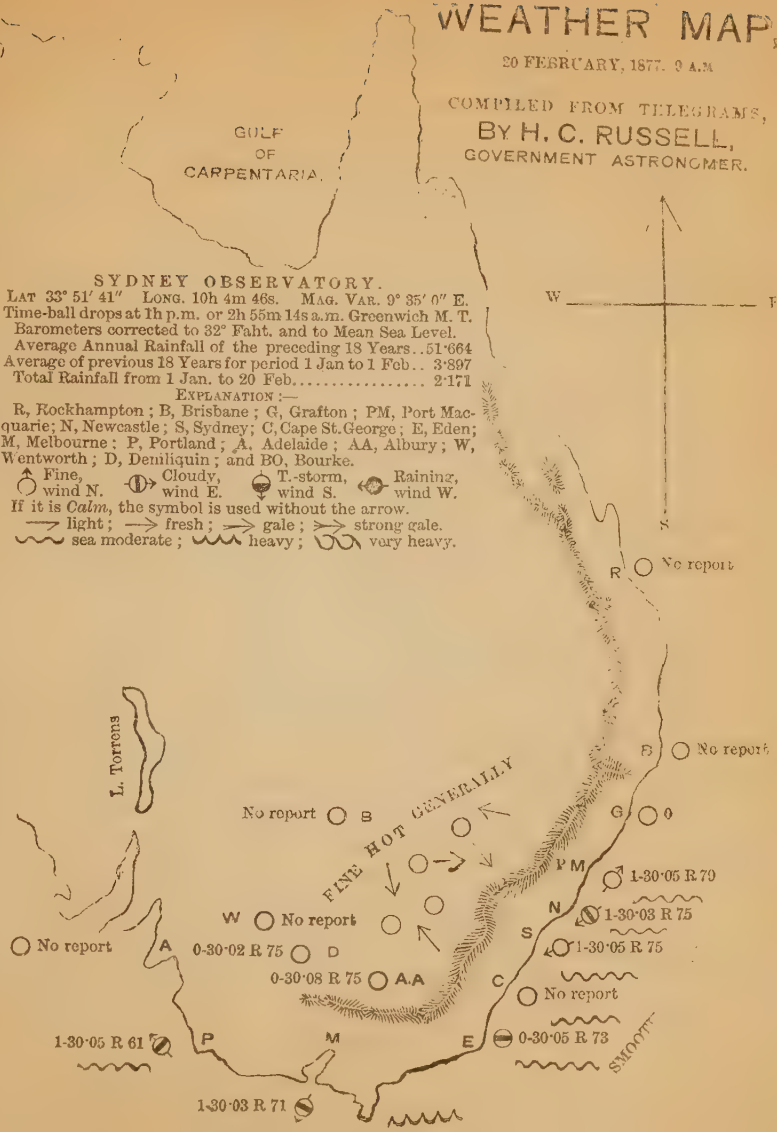


WEATHER MAP.

20 FEBRUARY, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain
Tenterfi'ld	85	55	0
Grafton ..	101	67	0
Inverell ..	94	65	0
Bourke ..	..	..	..
Narrabri ..	95	74	0
Armidale ..	86	65	0
Gunnedah	..	..	..
Tamworth	100	61	0
P. Macqrie	86	60	0
Murr'undi	88	47	0
Cassilis ..	101	59	0
Mus'brook	106	62	0
Dubbo ..	93	69	0
Maitland ..	98	70	0
Newcastle	83	65	0
Orange ..	..	..	..
Bathurst ..	..	..	..
Mt Victoria	..	..	..
Forbes ..	93	63	0
SYDNEY ..	87	70	0
Wentw'th.	..	..	..
Young	92	56	0
Woll'gong	83	65	0
Euston ..	..	..	..
Goulburn	98	49	0
Wagga ..	97	60	0
Cape Geo.	..	..	..
Queanb'an	95	57	0
Urana....	..	..	..
Deniliquin	91	62	0
Albury ..	94	55	0
Bodalla ..	98	55	0
Cooma ..	92	47	0
Eden	80	63	0

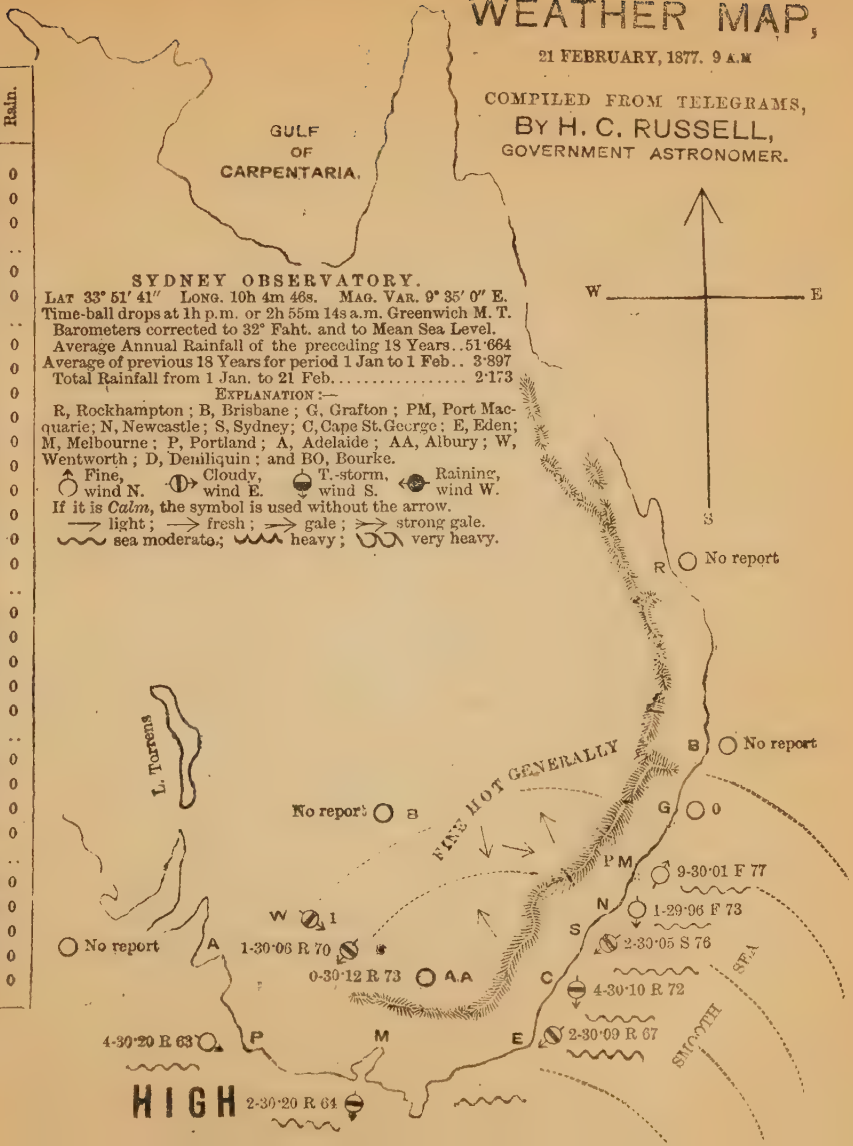


WEATHER MAP,

21 FEBRUARY, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	85	57	0
Grafton ..	100	66	0
Inverell ..	96	65	0
Bourke ..	..	..	..
Narrabri ..	110	78	0
Armidale .	88	67	0
Gunnedah	..	..	..
Tamworth	102	67	0
P. Macqrie	85	68	0
Murr'undi	96	47	0
Cassilis ..	105	64	0
Mus'brook	108	66	0
Dubbo ..	97	71	0
Maitland ..	91	65	0
Newcastle	81	68	0
Orange ..	90	61	0
Bathurst ..	102	55	0
Mt Victoria	..	..	..
Forbes ..	95	64	0
SYDNEY ..	83	68	0
Wentw'th.	103	..	0
Young ...	96	61	0
Woll'gong	81	65	0
Euston ..	..	..	..
Goulburn	99	58	0
Wagga ..	100	62	0
Cape Geo.	82	68	0
Queanb'an	96	64	0
Urana	..	..	..
Deniliquin	94	62	0
Albury ..	98	59	0
Bodalla ..	88	61	0
Cooma ..	95	58	0
Eden	80	60	0



SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 35′ 0″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664
Average of previous 18 Years for period 1 Jan to 1 Feb.. 3·897
Total Rainfall from 1 Jan. to 21 Feb..... 2·173

EXPLANATION:—

R, Rockhampton; B, Brisbane; G, Grafton; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George; E, Eden; M, Melbourne; P, Portland; A, Adelaide; AA, Albury; W, Wentworth; D, Deniliquin; and BO, Bourke.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

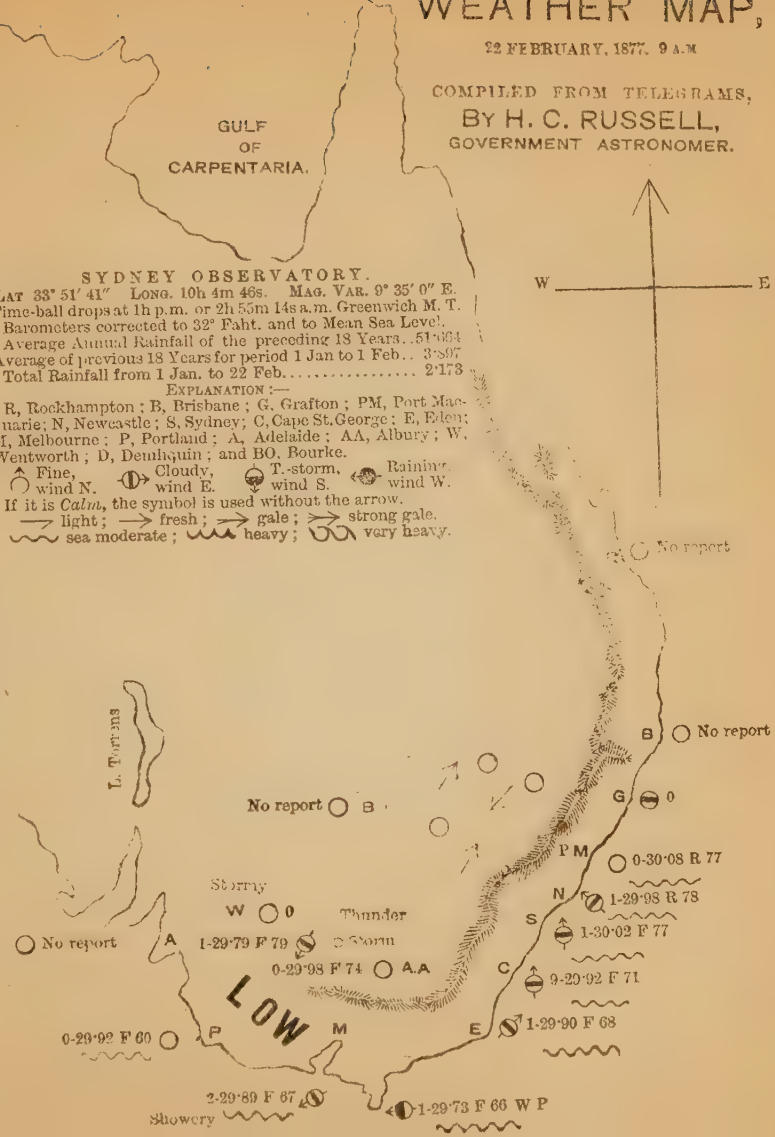
sea moderate; heavy; very heavy.

WEATHER MAP,

22 FEBRUARY, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	89	56	0
Grafton ..	103	67	0
Inverell ..	95	63	0
Bourke ..	..	..	..
Narrabri ..	111	74	0
Armidale .	90	60	0
Gunnedah	..	..	..
Tamworth	104	62	0
P. Macqrie	88	69	0
Murr'undi	96	47	0
Cassilis ..	104	57	0
Mus'brook	166	67	0
Dubbo ..	100	73	0
Maitland ..	95	71	0
Newcastle	82	60	0
Orange ..	91	67	0
Bathurst ..	99	55	0
MtVictoria	96	55	..
Forbes .	93	66	0
SYDNEY ..	81	69	0
Wentw'th.	103	..	0
Young .	91	56	0
Woll'gong	81	65	0
Euston .	..	..	..
Goulburn	95	59	0
Wagga ..	99	65	0
Cape Geo	76	66	0·09
Queanb'an	..	..	..
Urana	..	..	..
Deniliquin	95	66	0
Albury ..	98	58	0
Bodalla	73	59	0
Cooma .	..	..	..
Eden	75	62	0

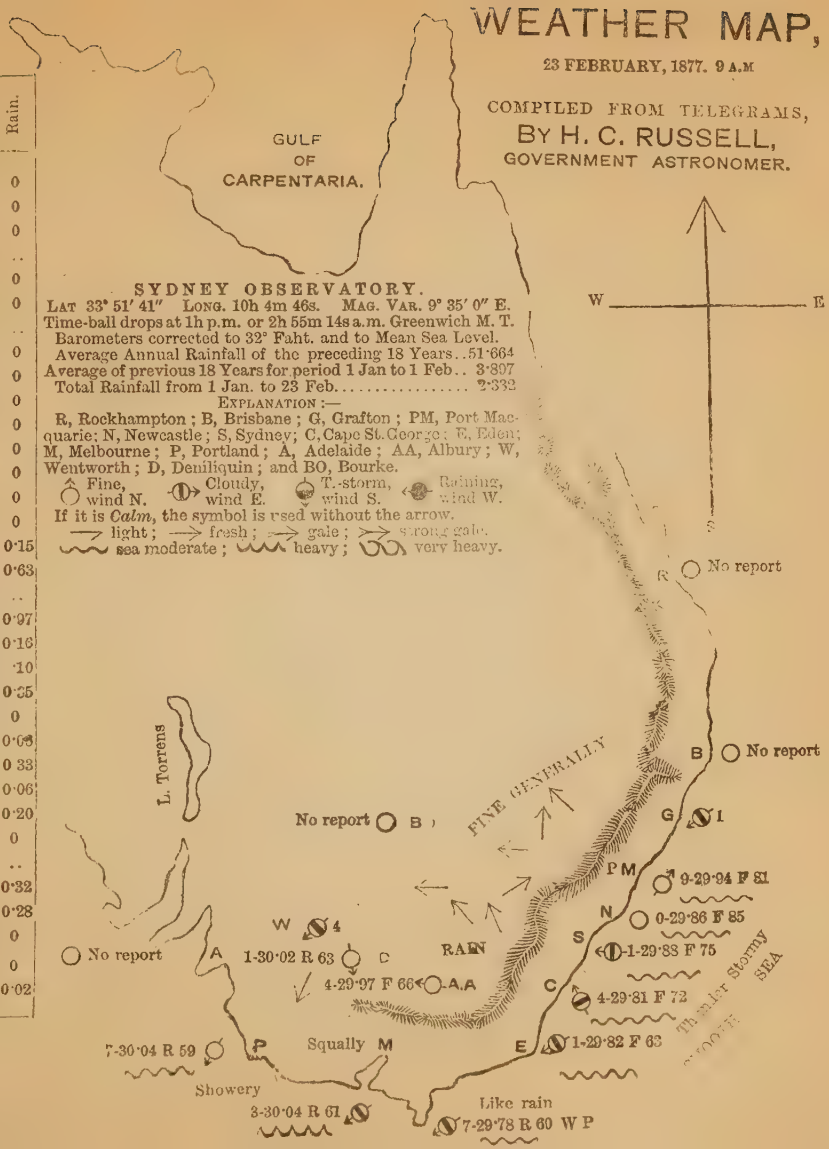


WEATHER MAP,

23 FEBRUARY, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	82	55	0
Grafton ..	100	67	0
Inverell ..	95	62	0
Bourke ..	..	..	..
Narrabri..	102	75	0
Armidale.	91	60	0
Gunnedah	..	..	..
Tamworth	102	65	0
P. Macqrie	85	69	0
Murr'undi	93	44	0
Cassilis ..	101	67	0
Mus'brook	108	75	0
Dubbo ..	91	75	0
Maitland..	95	73	0
Newcastle	87	58	0
Orange ..	91	65	0·15
Bathurst..	100	62	0·63
MtVictoria	..	..	..
Forbes ..	97	64	0·97
SYDNEY ..	84	70	0·16
Wentw'th.	94	..	·10
Young ..	96	66	0·35
Woll'gong	81	70	0
Euston ..	99	53	0·68
Goulburn	97	64	0·33
Wagga ..	95	70	0·06
Cape Geo.	83	70	0·20
Queanb'an	88	66	0
Urana....	..	..	..
Deniliquin	101	59	0·32
Albury ..	103	63	0·28
Bodalla ..	87	64	0
Cooma .	83	63	0
Eden ...	76	61	0·02

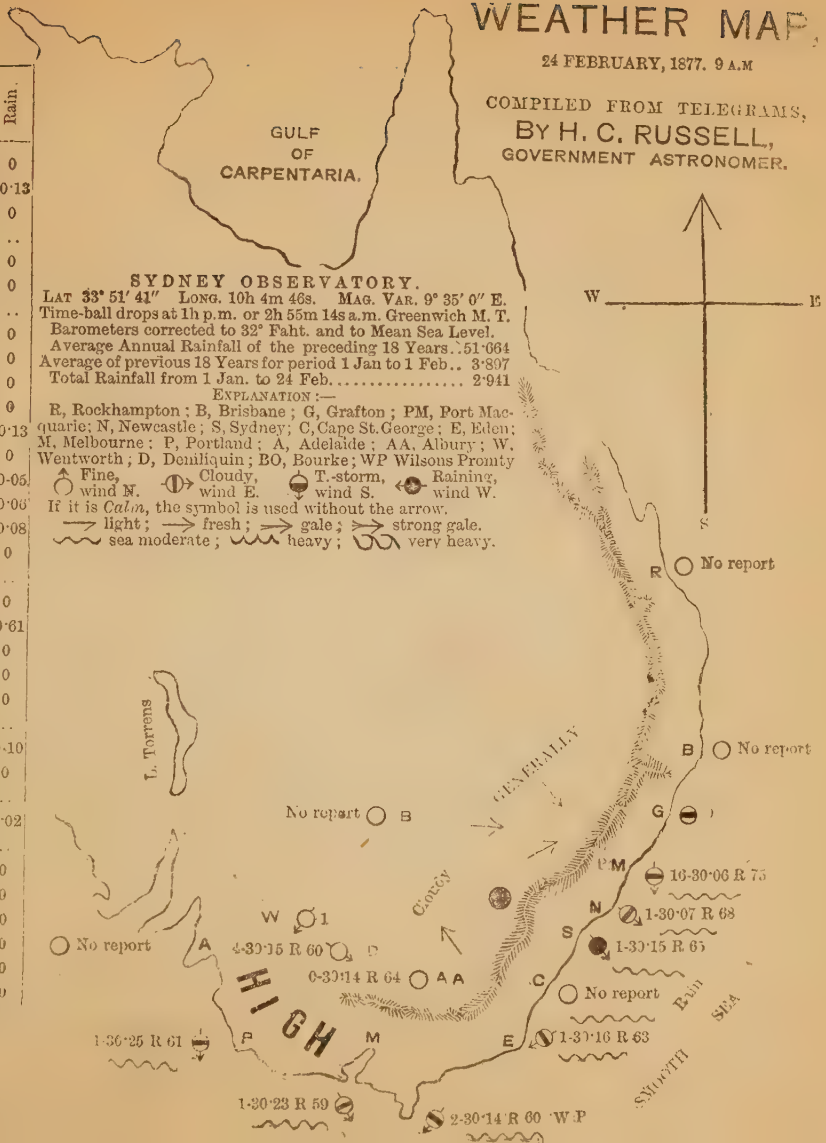


WEATHER MAP,

24 FEBRUARY, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	83	62	0
Grafton ..	103	68	0·13
Inverell ..	88	66	0
Bourke ..	..	..	..
Narrabri ..	98	75	0
Armidale .	82	66	0
Gunnedah	..	..	..
Tamworth	96	72	0
P. Macqrie	85	72	0
Murr'undi	87	44	0
Cassilis ..	94	70	0
Mus'brook	107	67	0·13
Dubbo ..	96	75	0
Maitland..	98	75	0·05
Newcastle	89	68	0·06
Orange ..	84	66	0·08
Bathurst..	93	62	0
MtVictoria	..	..	..
Forbes ..	85	61	0
SYDNEY ..	86	64	0·61
Wentw'th.	86	..	0
Young ..	82	52	0
Woll'gong	81	[illegible]	0
Euston ..	..	..	..
Goulburn	79	[illegible]	0·10
Wagga ..	82	[illegible]	0
Cape Geo	..		..
Queanb'an	80	[illegible]	0·02
Urana....	..	..	..
Deniliquin	71	51	0
Albury ..	83	45	0
Bodalla ..	74	55	0
Cooma ..	88	51	0
Eden	73	59	0
Gabo Isld.	72	59	0



SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 35′ 0″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664
Average of previous 18 Years for period 1 Jan to 1 Feb.. 3·897
Total Rainfall from 1 Jan. to 24 Feb..... 2·941

EXPLANATION :—

R, Rockhampton ; B, Brisbane ; G, Grafton ; PM, Port Macquarie; N, Newcastle ; S, Sydney; C, Cape St. George ; E, Eden; M, Melbourne ; P, Portland ; A, Adelaide ; AA, Albury ; W, Wentworth ; D, Deniliquin ; BO, Bourke ; WP Wilsons Promty

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light ; fresh ; gale ; strong gale.

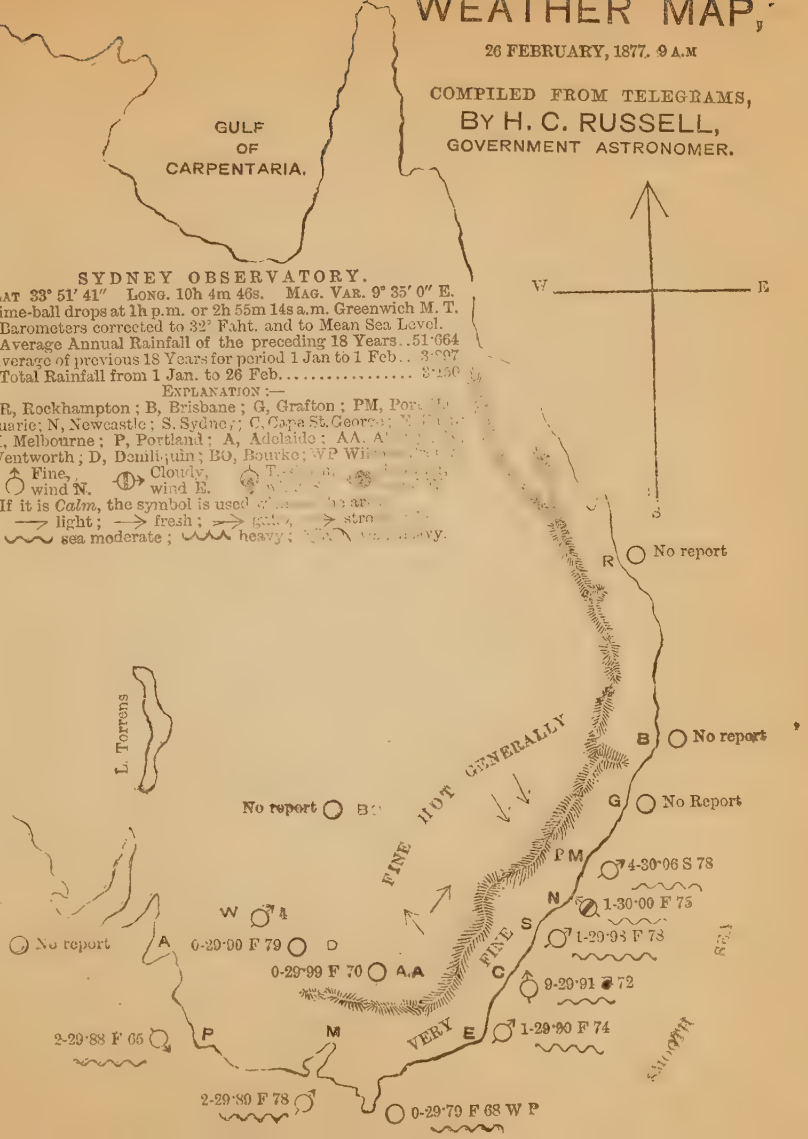
sea moderate ; heavy ; very heavy.

WEATHER MAP,

26 FEBRUARY, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	..	..	..
Grafton ..	..	..	..
Inverell ..	86	63	0
Bourke ..	..	..	..
Narrabri ..	87	66	0
Armidale .	82	62	0
Gunnedah	..	..	..
Tamworth	..	..	..
P. Maquarie	82	68	0
Murr'undi	88	47	0
Cassilis ..	98	67	0
Mus'brook	97	76	0
Dubbo ..	91	72	0
Maitland..	..	..	..
Newcastle	79	68	0
Orange ..	..	..	..
Bathurst..	..	..	..
Mt Victoria	..	..	..
Forbes ..	..	61	..
SYDNEY ..	78	68	0
Wentw'th.	96	..	0
Young ..	..	..	..
Woll'gong	76	62	0
Euston ..	..	..	..
Goulburn	91	56	0
Wagga ..	93	61	0
Cape Geo.	75	67	0
Queanb'an	91	60	0
Urana....	..	..	0
Deniliquin	93	52	0
Albury ..	95	50	0
Beechw'th ..	87	51	0
Cooma ..	88	46	0
Eden ..	76	63	0
Cape Isld.	71	60	0



SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 35′ 0″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664
Average of previous 18 Years for period 1 Jan to 1 Feb.. 3·097
Total Rainfall from 1 Jan. to 26 Feb..... 3·150

EXPLANATION :—

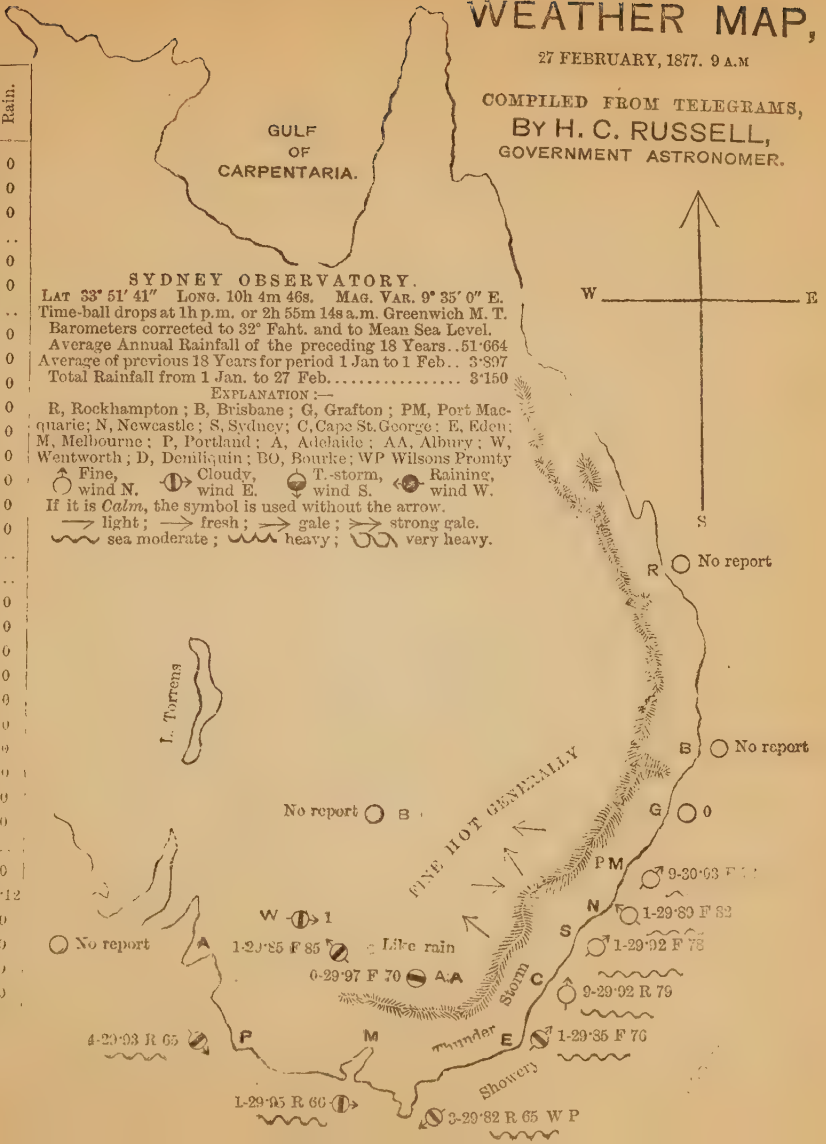
R, Rockhampton ; B, Brisbane ; G, Grafton ; PM, Port Macquarie; N, Newcastle ; S. Sydne;; C, Cape St. George ; M, Melbourne ; P, Portland ; A, Adelaide ; AA. A[illegible]
Wentworth ; D, Deniliquin ; BO, Bourke ; WP Wi[illegible]
Fine, wind N. Cloudy, wind E. T[illegible]
If it is *Calm*, the symbol is used [illegible]
light ; fresh ; [illegible] ; stro[illegible]
sea moderate ; heavy ; [illegible]

WEATHER MAP,

27 FEBRUARY, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	72	60	0
Grafton ..	99	65	0
Inverell ..	88	60	0
Bourke ..	..	..	..
Narrabri ..	109	73	0
Armidale .	82	58	0
Gunnedah	..	..	..
Tamworth	98	65	0
P. Macqrie	84	67	0
Murr'undi	93	47	0
Cassilis ..	98	66	0
Mus'brook	101	67	0
Dubbo ..	100	76	0
Maitland ..	93	69	0
Newcastle	82	69	0
Orange ..	86	65	0
Bathurst ..	..	..	..
MtVictoria	..	..	..
Forbes ..	90	70	0
SYDNEY ..	83	70	0
Wentw'th.	106	..	0
Young ..	95	58	0
Woll'gong	81	70	0
Euston ..	110	69	0
Goulburn	96	61	0
Wagga ..	103	75	0
Cape Geo.	81	69	0
Queanb'an	97	67	0
Grafton ..	..	..	..
Deniliquin	105	76	0
Albury ..	102	67	0·12
Bodalla ..	95	61	0
Cooma ..	98	55	0
Eden	82	64	0
Cape Ishd.	77	67	0



SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 35′ 0″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664
Average of previous 18 Years for period 1 Jan to 1 Feb.. 3·897
Total Rainfall from 1 Jan. to 27 Feb..... 3·150

EXPLANATION :—

R, Rockhampton ; B, Brisbane ; G, Grafton ; PM, Port Macquarie; N, Newcastle ; S, Sydney; C, Cape St. George ; E, Eden; M, Melbourne ; P, Portland ; A, Adelaide ; AA, Albury ; W, Wentworth ; D, Deniliquin ; BO, Bourke ; WP Wilsons Promty

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light ; fresh ; gale ; strong gale.

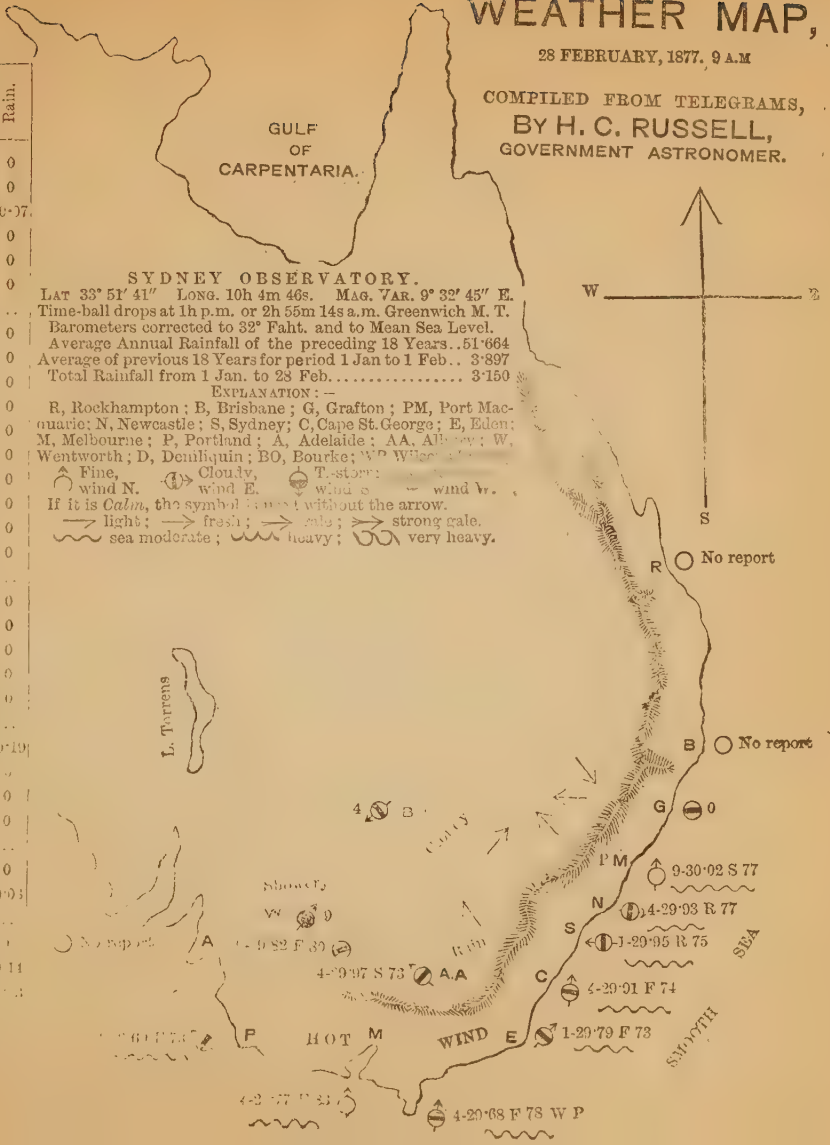
sea moderate ; heavy ; very heavy.

WEATHER MAP,

28 FEBRUARY, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	80	55	0
Grafton ..	98	65	0
Inverell ..	89	62	0·07
Bourke ..	106	66	0
Narrabri ..	103	75	0
Armidale .	83	58	0
Gunnedah	..	.	..
Tamworth	98	66	0
P. Macquarie	82	69	0
Warr'undi	93	47	0
[illegible]	94	66	0
Mus'brook	109	74	0
Dubbo ..	99	75	0
M[illegible]	97	75	0
Newcastle	9[illegible]	70	0
Orange ..	8[illegible]	68	0
Bathurst ..	97	64	0
Mt Victoria	.	.	..
Forbes .	92	71	0
Sydney .	87	71	0
Wentw'th.	105	..	0
[illegible]	[illegible]	[illegible]	0
Wa[illegible]gong	[illegible]	[illegible]	0
Eden ..	.	.	..
Goulburn	9[illegible]	62	0·19
[illegible]	9[illegible]	74	[illegible]
[illegible]	8[illegible]	70	0
[illegible]	[illegible]	53	0
[illegible]		..	..
[illegible]	[illegible]	68	0
[illegible]	9	65	0·03
[illegible]	.	.	..
[illegible]		[illegible]	[illegible]
[illegible]	..	68	0·14
[illegible]			[illegible]

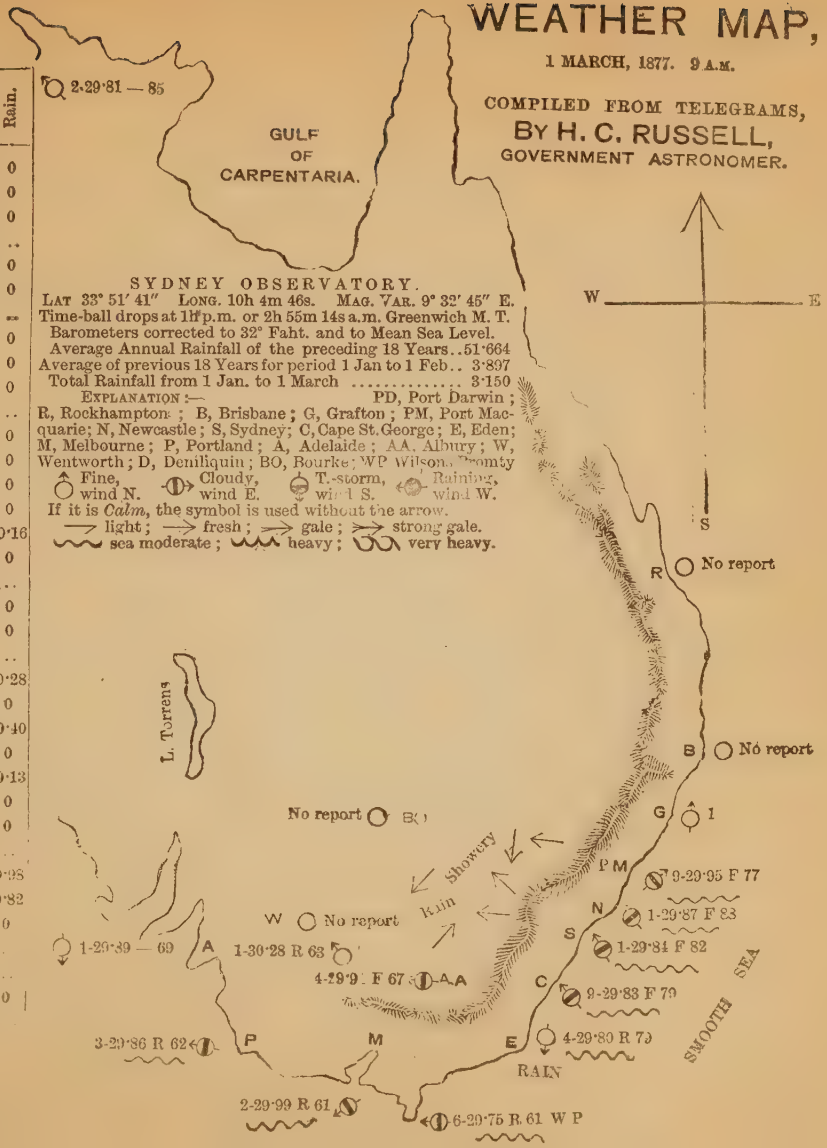


WEATHER MAP,

1 MARCH, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	80	56	0
Grafton ..	96	50	0
Inverell ..	89	62	0
Bourke ..	..	..	..
Narrabri ..	102	75	0
Armidale .	81	58	0
Gunnedah	..	..	..
Tamworth	82	73	0
P. Macqrie	82	69	0
Murr'undi	83	42	0
Cassilis ..	..	..	..
Mus'brook	107	79	0
Dubbo ..	95	74	0
Maitland..	92	59	0
Newcastle	88	65	0
Orange ..	83	65	0·16
Bathurst..	91	65	0
Mt Victoria	..	..	..
Forbes ..	86	61	0
SYDNEY ..	83	74	0
Wentw'th.	..	..	..
Young ..	89	65	0·28
Woll'gong	81	70	0
Euston ..	74	51	0·40
Goulburn	87	65	0
Wagga ..	92	63	0·13
Cape Geo.	82	71	0
Queanb'an	92	65	0
Grafton ..	..	..	..
Deniliquin	86	55	0·98
Albury ..	98	62	0·82
Bodalla ..	94	73	0
Cooma ..	..	..	..
Eden	..	..	..
Cape Isld.	78	63	0

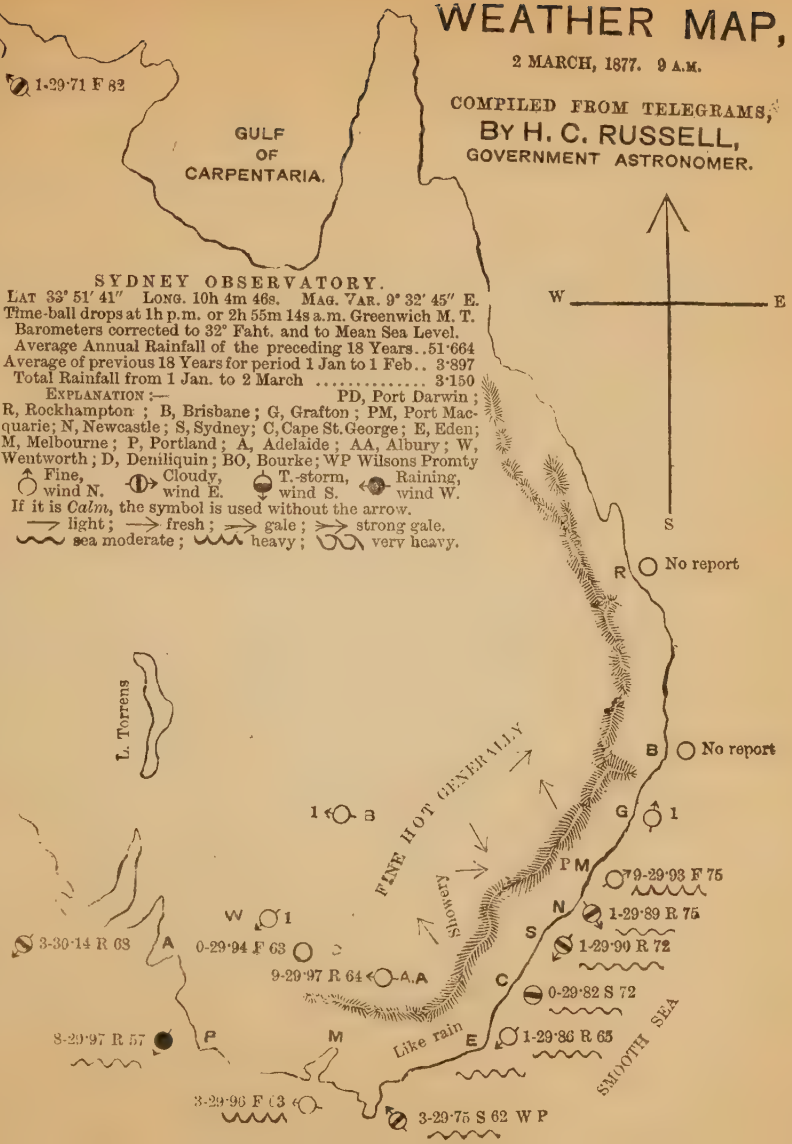


WEATHER MAP,

2 MARCH, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	84	57	0
Grafton ..	98	51	0
Inverell ..	89	62	0
Bourke ..	71	69	0
Narrabri ..	93	88	0
Armidale..	83	62	0
Gunnedah	..	..	..
Tamworth	92	68	0
P. Macqrie	82	67	0
Murr'undi	78	44	0
Cassilis ..	92	76	0
Mus'brook	98	75	0
Dubbo ..	89	65	0
Maitland..	98	77	0
Newcastle	96	56	0
Orange ..	75	64	0·19
Bathurst..	83	62	0·04
Mt Victoria	80	61	0
Forbes ..	82	59	0
SYDNEY ..	91	70	0
Wentw'th.	87	..	0
Young ..	88	62	0
Woll'gong	76	65	0
Euston ..	..	..	..
Goulburn	86	62	0
Wagga ..	82	75	0
Cape Geo.	86	66	0·04
Queanb'an	89	65	0
Urana....	..	..	..
Deniliquin	79	63	0
Albury ..	85	51	0
Bodalla ..	..	..	..
Cooma ..	85	44	0
Eden	80	63	0·16
Gabo Isld.	68	63	0·10

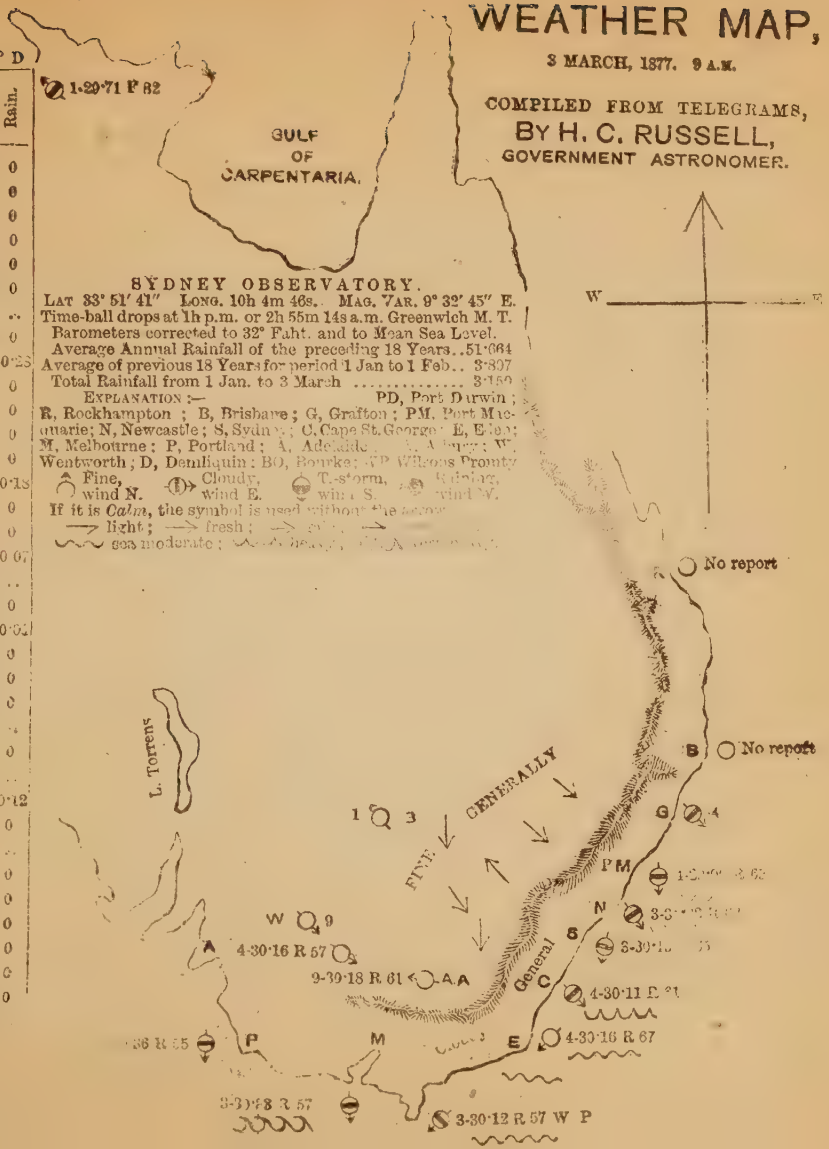


WEATHER MAP,

3 MARCH, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	82	59	0
Grafton ..	98	67	0
Inverell ..	90	71	0
Bourke ..	76	59	0
Narrabri ..	90	73	0
Armidale .	85	65	0
Gunnedah	..	..	..
Tamworth	92	65	0
P. Macqrie	80	..	0·25
Murr'undi	83	42	0
Cassilis ..	83	65	0
Mus'brook	95	65	0
Dubbo ..	85	60	0
Maitland ..	90	60	0·18
Newcastle	83	..	0
Orange ..	74	54	0
Bathurst ..	87	49	0·07
Mt Victoria	..	..	..
Forbes ..	83	58	0
SYDNEY ..	74	64	0·02
Wentw'th.	87	..	0
Young ..	85	5	0
Woll'gong	88	62	0
Muston ..	..	..	..
Goulburn	83	5	0
Wagga	..	..	..
Cape Geo	74	58	0·12
Queanb'an	83	58	0
Yass	..	..	..
Deniliquin	78	49	0
[illegible]	82	47	0
[illegible]	83	53	0
[illegible]	[illegible]	45	0
[illegible]	81	55	0
[illegible]	74	55	0



SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 32′ 45″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664
Average of previous 18 Years for period 1 Jan to 1 Feb.. 3·307
Total Rainfall from 1 Jan. to 3 March ..... 3·159

EXPLANATION :— PD, Port Darwin ; R, Rockhampton ; B, Brisbane ; G, Grafton ; PM, Port Macquarie; N, Newcastle ; S, Sydney ; C, Cape St. George ; E, Eden ; M, Melbourne ; P, Portland ; A, Adelaide ; [illegible] ; W, Wentworth ; D, Deniliquin ; BO, Bourke ; WP, Wilcoos Promty

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

→ light ; → fresh ; → [illegible]

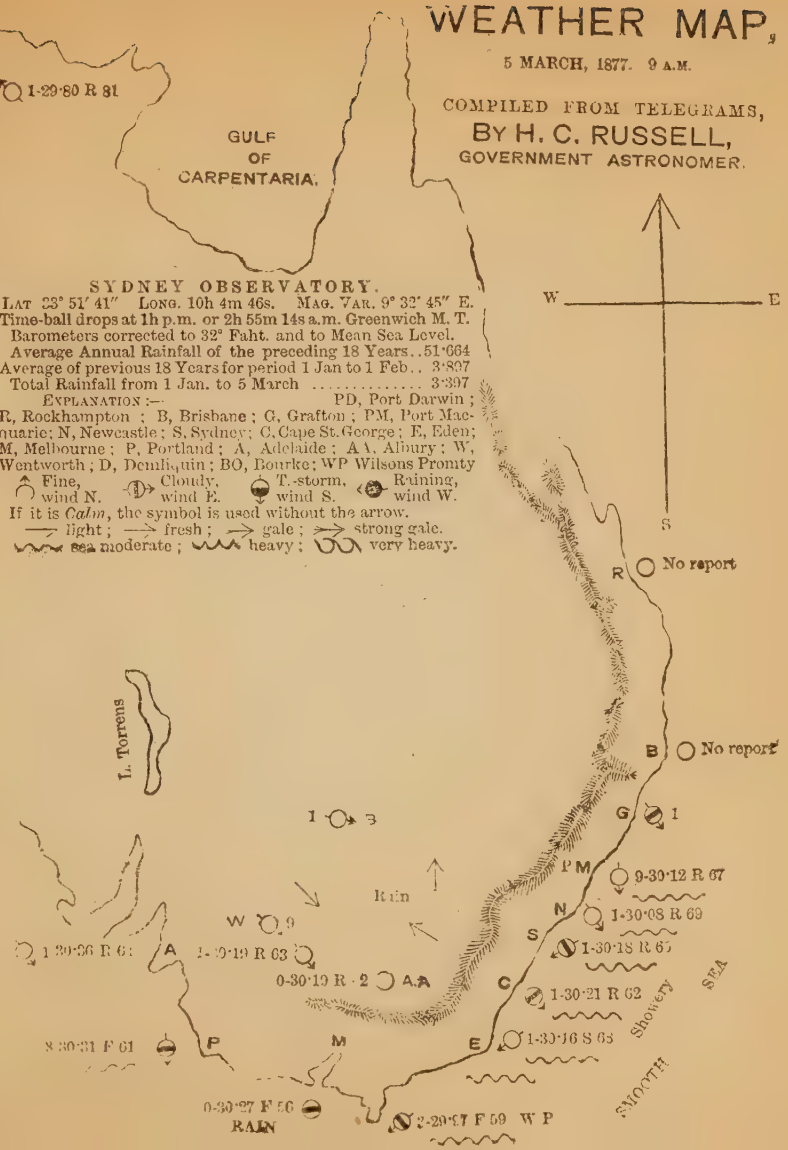
〰 sea moderate ; 〰 heavy ; [illegible]

WEATHER MAP,

5 MARCH, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	71	59	0·08
Grafton ..	81	50	0
Inverell ..	74	60	0·56
Bourke ..	88	65	0
Narrabri ..	83	62	0
Armidale .	77	55	0
Gunnedah	..	..	..
Tamworth	85	60	0
P. Macqrie	74	61	0
Murr'undi	97	51	0
Cassilis ..	79	67	0
Mus'brook	81	51	0
Dubbo ..	82	59	0
Maitland..	..	..	..
Newcastle	82	59	0
Orange ..	73	56	0·01
Bathurst..	76	46	0
MtVictoria	..	..	..
Forbes ..	79	55	0
SYDNEY ..	72	60	0 24
Wentw'th.	85	..	0
Young ..	77	63	0·01
Woll'gong	74	60	0
Euston ..	83	50	0
Goulburn	71	45	0
Wagga ..	83	55	0
Cape Geo	71	62	0·05
Queanb'an	78	49	0
Urana....	..	..	..
Deniliquin	94	48	0
Albury ..	84	45	0
Bodalla	85	48	0
Yeoval ..	76	58	0
Eden	70	56	0
Gabo Isld.	67	58	0

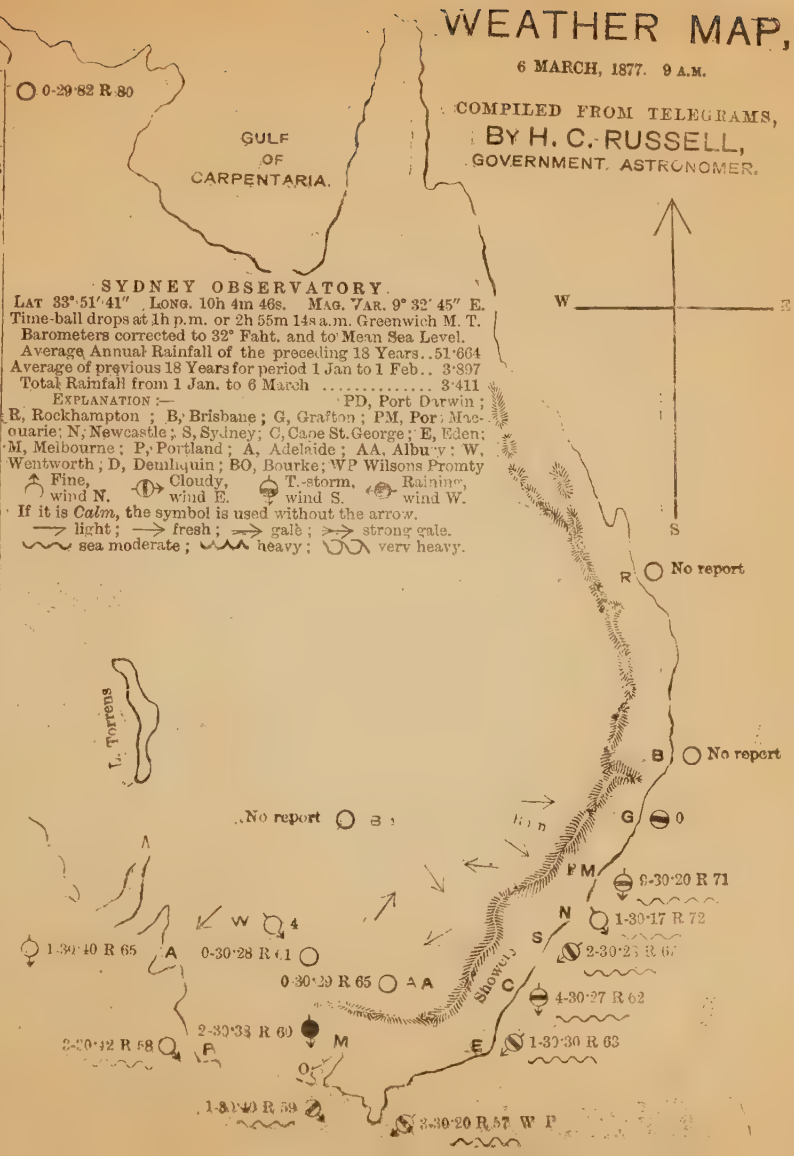


WEATHER MAP,

6 MARCH, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	71	57	0·03
Grafton ..	81	67	0
Inverell ..	77	58	0·10
Bourke ..	..	..	..
Narrabri ..	84	65	0
Armidale .	75	53	0
Gunnedah	..	..	..
Tamworth	95	64	0
P. Macqrie	79	62	0
Murr'undi	97	59	0
Cassilis ..	79	65	0
Mus'brook	87	64	0
Dubbo ..	79	60	0
Maitland..	85	63	0
Newcastle	78	56	0
Orange ..	71	59	0
Bathurst..	61	46	0
MtVictoria	..	..	..
Forbes ..	75	58	0
SYDNEY ..	72	63	0·01
Wentw'th.	89	..	0
Young ..	71	56	0
Woll'gong	71	60	0
Euston ..	93	51	0
Goulburn	81	56	0
Wagga ..	85	53	0
Cape Geo	72	59	0·25
Queanb'an	84	57	0
Urana.....	..	..	..
Deniliquin	89	51	0
Albury ..	88	59	0
Bodalla ..	87	55	0
Co'mra ..	81	69	0·12
Eden	74	59	0
Gabo Isld.	60	58	0



SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 32′ 45″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664
Average of previous 18 Years for period 1 Jan to 1 Feb.. 3·897
Total Rainfall from 1 Jan. to 6 March ..... 3·411

EXPLANATION :— PD, Port Darwin; R, Rockhampton; B, Brisbane; G, Grafton; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George; E, Eden; M, Melbourne; P, Portland; A, Adelaide; AA, Albury; W, Wentworth; D, Deniliquin; BO, Bourke; WP Wilsons Promontory

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

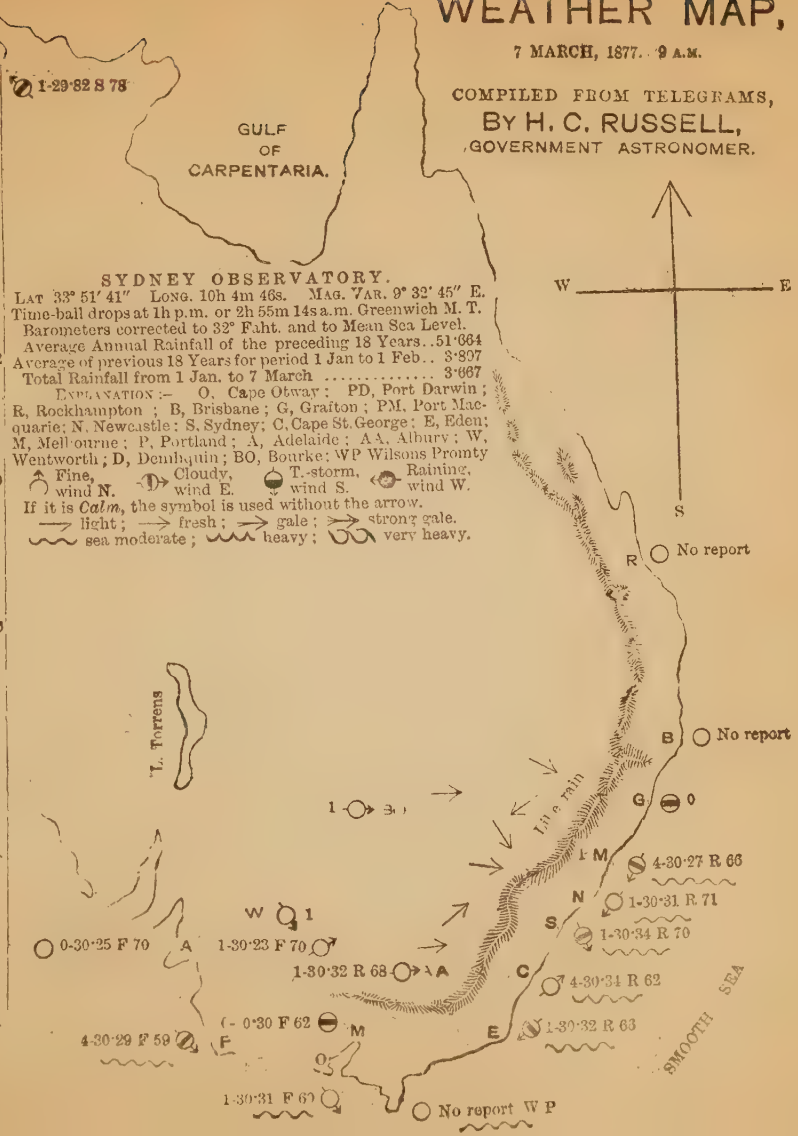
sea moderate; heavy; very heavy.

WEATHER MAP,

7 MARCH, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	P D Rain.
Tenterfi'ld	60	56	0·08
Grafton ..	87	65	0·18
Inverell ..	81	53	0
Bourke ..	89	69	0
Narrabri ..	81	60	0
Armidale .	76	55	0
Gunnedah	..	.	..
Tamworth	85	55	0
P. Macqrie	78	62	0·22
Murr'undi	89	52	0
Cassilis ..	81	63	0
Mus'brook	83	58	0
Dubbo ..	84	61	0
Maitland..	72	60	0·20
Newcastle	77	51	0
Orange ..	74	52	0
Bathurst..	83	47	0
MtVictoria	..	..	..
Forbes ..	77	54	0
SYDNEY ..	70	62	0·26
Wentw'th.	91	..	0
Young ..	92	59	0
Woll'gong	71	60	0
Euston ..	..	..	..
Goulburn	75	53	0
Wagga ..	82	67	0
Cape Geo	70	61	0
Queanb'an	78	50	0
Urana....	..	..	..
Deniliquin	84	53	0
Albury ..	89	53	0
Bodalla ..	77	48	0
[illegible]	81	40	0
Eden	71	58	0
Cabo Isld.	66	59	0



SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 32′ 45″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664
Average of previous 18 Years for period 1 Jan to 1 Feb.. 3·897
Total Rainfall from 1 Jan. to 7 March ..... 3·667

EXPLANATION:— O, Cape Otway; PD, Port Darwin; R, Rockhampton; B, Brisbane; G, Grafton; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George; E, Eden; M, Melbourne; P, Portland; A, Adelaide; AA, Albury; W, Wentworth; D, Deniliquin; BO, Bourke; WP Wilsons Promty

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

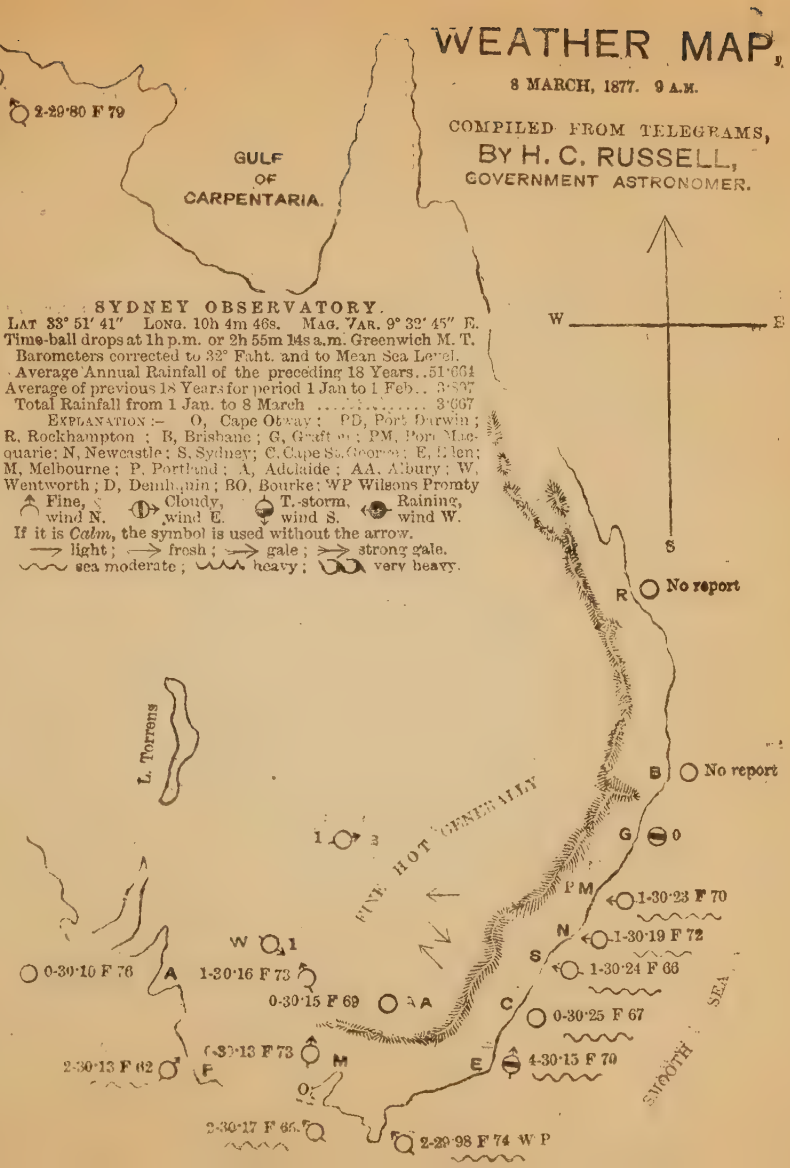
light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

WEATHER MAP,

8 MARCH, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	P D Rain.
Tenterfi'ld	68	56	0
Grafton ..	85	62	0
Inverell ..	78	50	0·10
Bourke ..	88	59	0
Narrabri ..	92	58	0
Armidale .	72	50	0
Gunnedah	..	..	..
Tamworth	83	54	0
P. Macqrie	77	61	0·04
Murr'undi	90	42	0
Cassilis ..	78	55	0
Mus'brook	85	56	0
Dubbo ..	84	62	0
Maitland..	80	72	0
Newcastle	78	59	0
Orange ..	72	51	0
Bathurst..	..	..	..
McVictoria	70	44	0
Forbes ..	84	59	0
SYDNEY ..	72	60	0
Wentw'th.	95	..	0
Young ..	82	56	0
Woll'gong	74	60	0
Euston ..	95	62	..
Goulburn	78	46	0
Wagga ..	86	65	0
Cape Geo.	73	63	0·31
Queanb'an	81	52	0
Urana ..	..	..	..
Deniliquin	92	59	0
Albury ..	90	57	0
Rodalla ..	82	47	0
Cooma	77	44	0
Eden .	74	61	0
Cabo Isld.	70	63	0

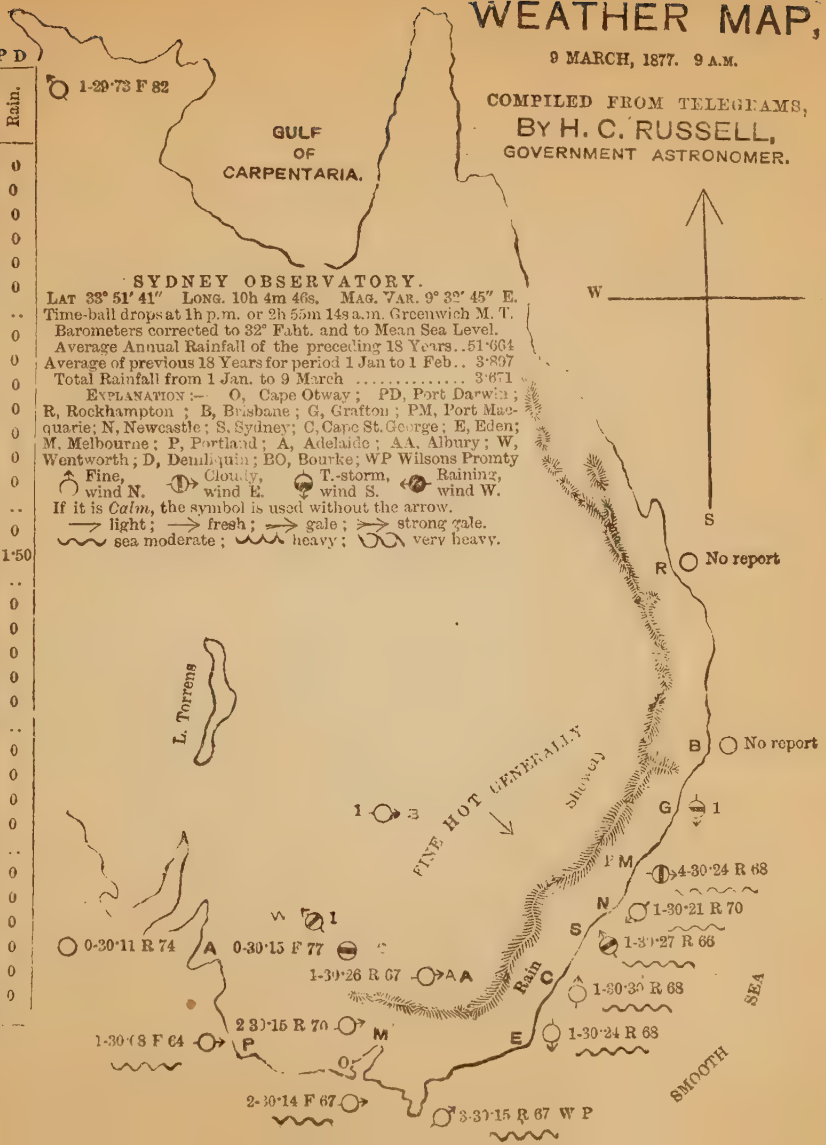


WEATHER MAP,

9 MARCH, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	74	59	0
Grafton ..	93	50	0
Inverell ..	76	50	0
Bourke ..	89	63	0
Narrabri ..	94	66	0
Armidale .	73	62	0
Gunnedah	..	..	..
Tamworth	90	58	0
P. Macqrie	79	61	0
Murr'undi	89	47	0
Cassilis ..	88	58	0
Mus'brook	92	60	0
Dubbo ..	85	62	0
Maitland ..	85	60	0
Newcastle	..	..	..
Orange ..	77	69	0
Bathurst ..	83	52	1·50
Mt Victoria	..	..	..
Forbes ..	83	58	0
SYDNEY ..	75	62	0
Wentw'th.	97	..	0
Young ..	85	61	0
Woll'gong	76	60	0
Euston ..	..	..	..
Goulburn	87	50	0
Wagga ..	90	65	0
Cape Geo	74	62	0
Queanb'an	85	54	0
Urara....	..	..	..
Deniliquin	94	65	0
Albury ..	93	52	0
Bodalla ..	84	51	0
Cooma ..	..	..	0
Eden ...	75	59	0
Gabo Isld.	73	62	0



SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 32′ 45″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Fahr. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664
Average of previous 18 Years for period 1 Jan to 1 Feb.. 3·897
Total Rainfall from 1 Jan. to 9 March ..... 3·671

EXPLANATION:— O, Cape Otway; PD, Port Darwin; R, Rockhampton; B, Brisbane; G, Grafton; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George; E, Eden; M, Melbourne; P, Portland; A, Adelaide; AA, Albury; W, Wentworth; D, Deniliquin; BO, Bourke; WP Wilsons Promty

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

WEATHER MAP,

10 MARCH, 1877. 9 A.M.

COMPILED FROM THE RAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

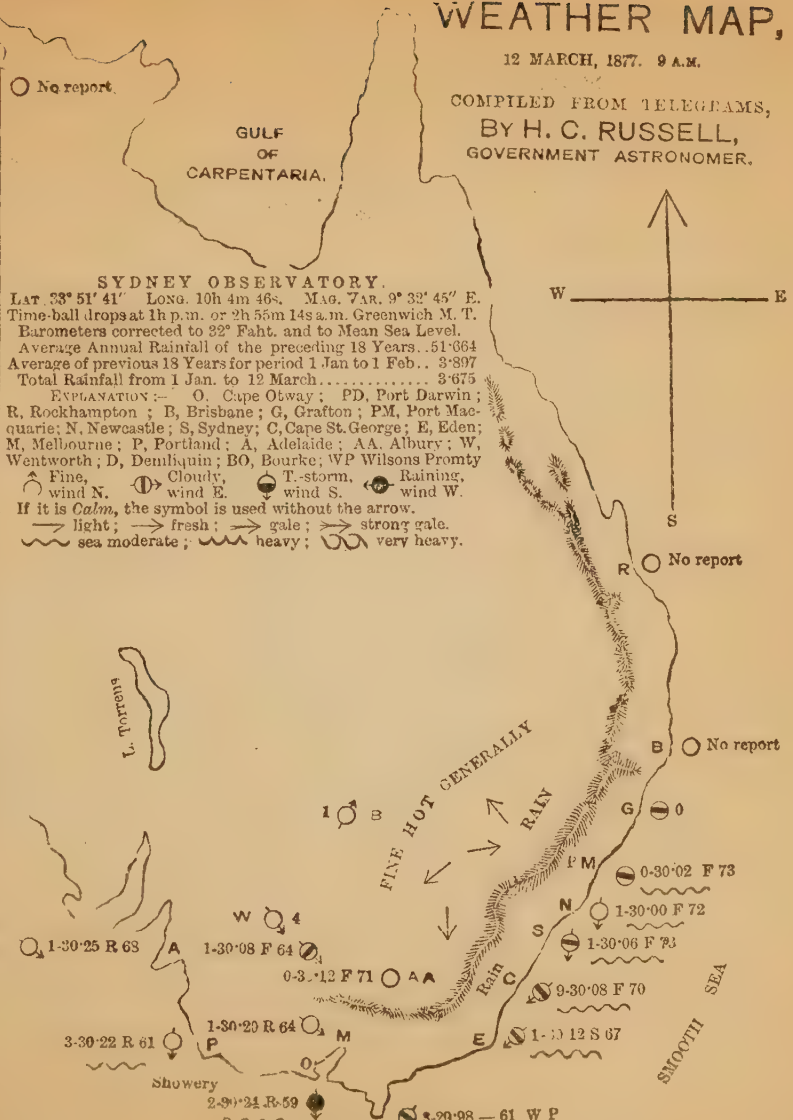
Stations.	Max.	Min.	Rain.
Tenterfi'ld	70	57	0
Grafton ..	87	63	0
Inverell ..	84	56	0
Bourke ..	81	61	0
Narrabri ..	81	64	0
Armidale .	72	58	0
Gunnedah	..	..	..
Tamworth	87	62	0
P. Macqrie	78	63	0·02
Murr'undi	61	43	0
Cassilis ..	85	63	0
Mus'brook	87	61	0
Dubbo ..	86	61	0
Maitland..	82	63	0
Newcastle	80	67	0
Orange ..	77	63	0
Bathurst..	85	47	0
Mt Victoria	..	..	..
Forbes ..	86	67	0
SYDNEY ..	76	64	0
Wentw'th.	95	..	0
Young ..	87	66	0
Woll'gong	76	60	0
Euston ..	100	65	0
Goulburn	85	46	0
Wagga ..	91	70	0
Cape Geo	77	62	0
Queanb'an	87	51	0
Urana....	..	..	..
Deniliquin	96	66	0·07
Albury ..	96	56	0
Rochella ..	83	47	0
[illegible]	85	42	0
[illegible]	75	62	0
Gabo Isld.	74	66	0

WEATHER MAP,

12 MARCH, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
			P D
Tenterf'ld	75	60	0
Grafton ..	91	63	0
Inverell ..	78	60	0·52
Bourke ..	79	61	0
Narrabri ..	77	62	0
Armidale .	72	58	0
Gunnedah	..	.	..
Tamworth	88	67	0
P. Macqrie	81	63	0
Murr'undi	82	45	0
Cassilis ..	80	67	0·19
Mus'brook	92	62	0
Dubbo ..	..	..	..
Maitland ..	85	63	0
Newcastle	81	63	0
Orange ..	77	60	0·09
Bathurst ..	89	54	0·30
Mt Victoria	80	52	0
Forbes ..	81	59	0
SYDNEY ..	75	65	0
Wentw'th.	96	..	0
Young ..	88	63	0
Woll'gong	76	63	0
Euston ..	92	52	0
Goulburn	93	53	0·78
Wagga ..	93	65	0
Cape Geo	74	67	0
Queanb'an	93	58	0
Urana	..	..	..
Deniliquin	94	59	0
Albury ..	97	58	0
Bodalla ..	86	62	0·60
Cooma .	88	53	0·29
Eden ..	76	63	0
Gabo Isld.	..	.	.



SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 32′ 45″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664
Average of previous 18 Years for period 1 Jan to 1 Feb.. 3·897
Total Rainfall from 1 Jan. to 12 March..... 3·675

EXPLANATION:— O, Cape Otway; PD, Port Darwin; R, Rockhampton; B, Brisbane; G, Grafton; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George; E, Eden; M, Melbourne; P, Portland; A, Adelaide; AA, Albury; W, Wentworth; D, Deniliquin; BO, Bourke; WP Wilsons Promty

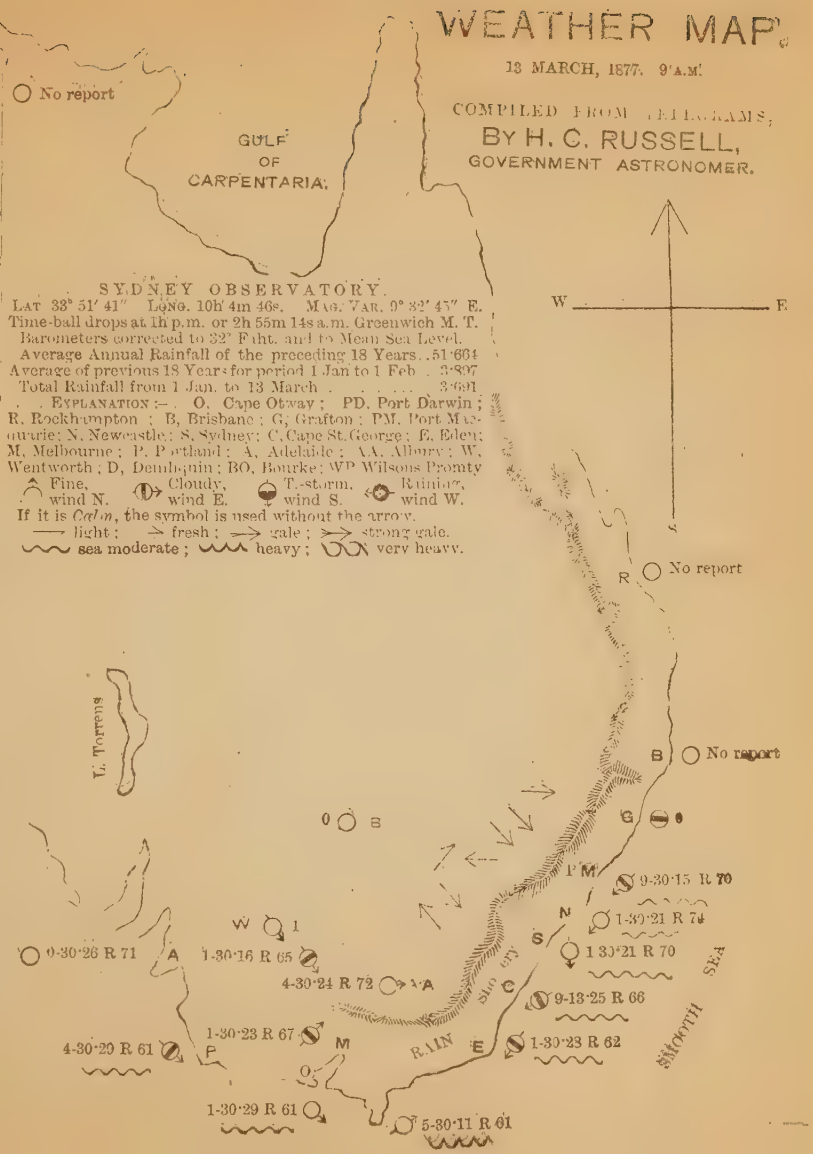
Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow.
light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

WEATHER MAP

13 MARCH, 1877. 9 A.M.

COMPILED FROM TELEGRAMS;
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	P D Rain.
Tenterfi'ld	68	53	0·28
Grafton ..	89	64	0
Inverell ...	81	58	0·25
Bourke ..	83	59	0
Narrabri ..	80	55	0·12
Armidale .	77	53	0
Gunnedah	..	.	..
Tamworth	92	57	0
P. Macqrie	82	66	0·67
Murr'undi	75	43	0
Cassilis ..	84	67	0
Mus'brook	91	65	0
Dubbo ..	83	60	0
Maitland..	85	62	0
Newcastle	79	57	0·21
Orange .	78	58	0·24
Bathurst..	..	..	..
Mt Victoria	.	..	..
Forbes ..	83	59	0
SYDNEY ...	79	69	0·02
Wentw'th.	90	.	0
Young ..	87	60	0
Woll'gong	71	65	0
Euston ..	..	..	..
Goulburn	79	57	0·11
Wagga ..	92	65	0
Cape Geo	73	66	0·44
Queanb'an	80	58	0·02
Urana....	..	..	..
Deniliquin	86	54	0
Albury ..	97	56	0
Bodalla ..	72	58	0
Cooma ..	80	53	0
Eden	71	62	0·05
Gabo Isld.	66	60	0

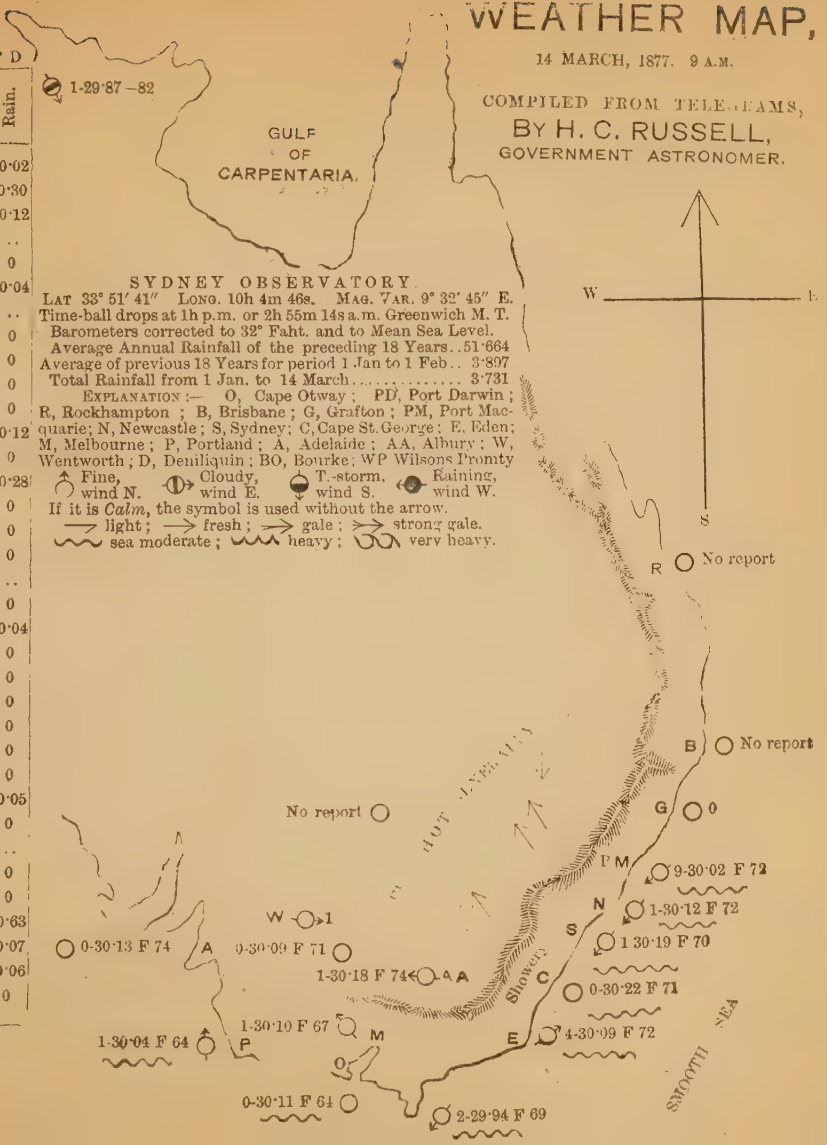


WEATHER MAP,

14 MARCH, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	72	53	0·02
Grafton ..	88	55	0·30
Inverell ..	81	54	0·12
Bourke ..	..	..	..
Narrabri ..	94	66	0
Armidale .	78	55	0·04
Gunnedah	..	..	..
Tamworth	96	54	0
P. Macqrie	77	63	0
Murr'undi	84	43	0
Cassilis ..	83	65	0
Mus'brook	87	63	0·12
Dubbo ..	80	60	0
Maitland ..	80	60	0·28
Newcastle	78	67	0
Orange ..	75	54	0
Bathurst ..	78	49	0
MtVictoria	..	..	..
Forbes ..	80	60	0
SYDNEY ..	75	62	0·04
Wentw'th.	93	..	0
Young ..	82	57	0
Woll'gong	76	60	0
Euston ..	90	50	0
Goulburn	74	58	0
Wagga ..	91	65	0
Cape Geo.	72	64	0·05
Queanb'an	80	58	0
Urana	..	..	..
Deniliquin	91	58	0
Albury ..	93	54	0
Bodalla ..	82	59	0·63
Cooma ..	76	46	0·07
Eden	75	62	0·06
Gabo Isld.	70	63	0

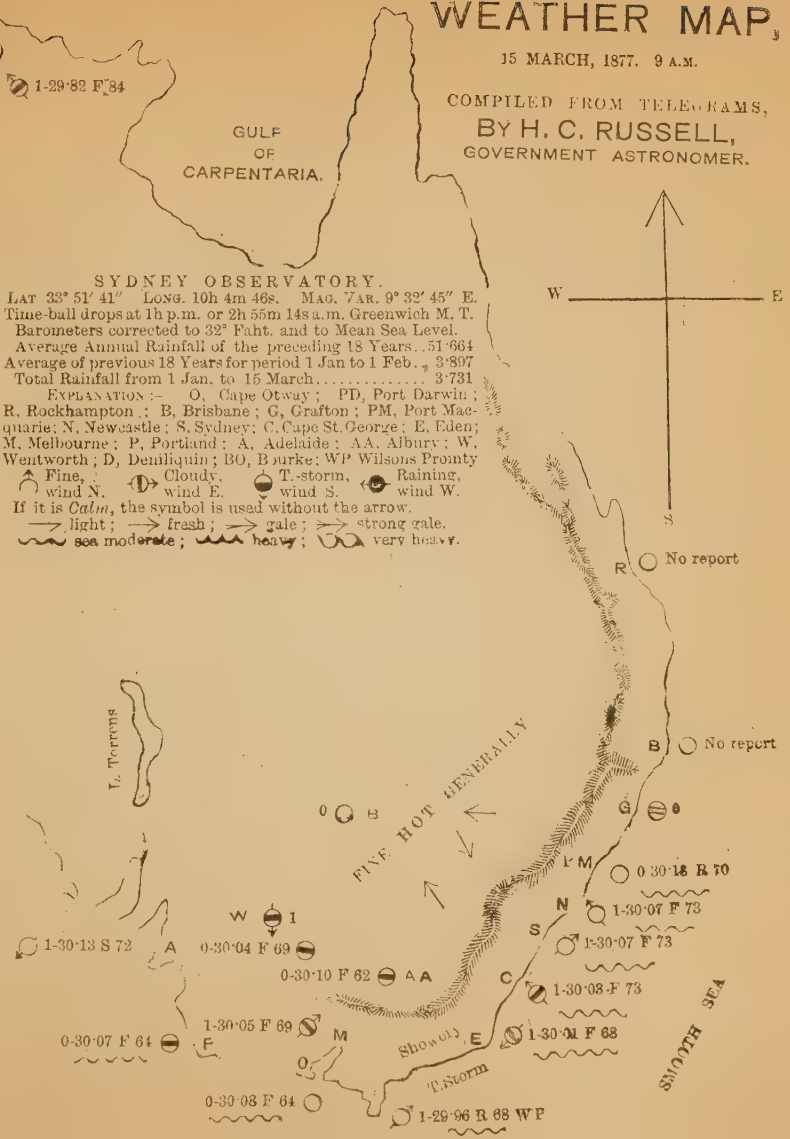


WEATHER MAP,

15 MARCH, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	75	55	0
Grafton ..	93	56	0
Inverell ..	86	58	0
Bourke ..	93	65	0
Narrabri ..	95	55	0
Armidale ..	78	53	0
Gunnedah	..	..	..
Tamworth	92	59	0
P. Macqrie	80	61	0
Murr'undi	81	43	0
Cassilis ..	87	54	0
Mus'brook	88	56	0
Dubbo ..	72	60	0
Maitland ..	..	..	..
Newcastle	78	61	0
Orange ..	77	55	0
Bathurst ..	87	50	0
Mt Victoria	..	..	..
Forbes ..	74	57	0
SYDNEY ..	78	62	0
Wentw'th.	100	68	0
Young ..	88	62	0
Woll'gong	76	60	0
Euston ..	99	60	0
Goulburn	85	57	0
Wagga ..	92	66	0
Cape Geo	75	65	0
Queanb'an	86	61	0
Urana	..	..	..
Deniliquin	94	63	0
Albury ..	94	54	0
Bodalla ..	83	57	0
Cooma ..	81	52	0
Eden	76	68	0
Gabo Isld.	73	64	0·09

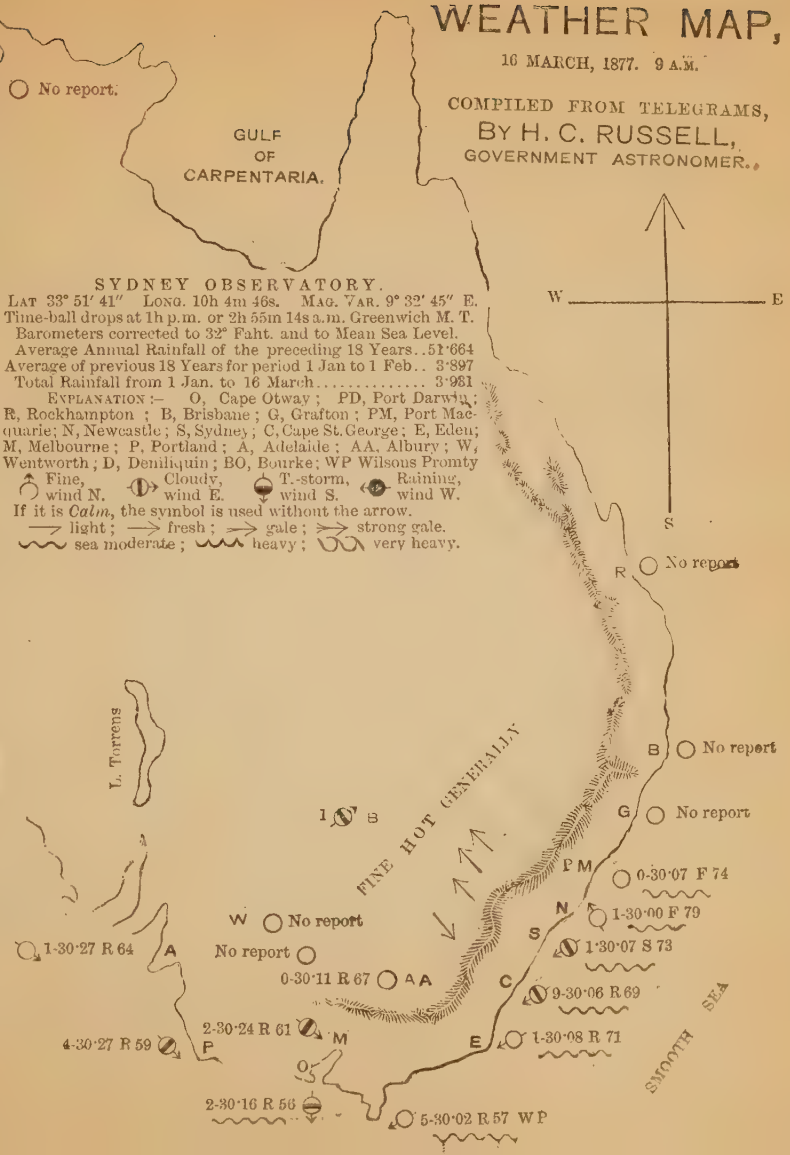


WEATHER MAP,

16 MARCH, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	75	62	0
Grafton ..	..	..	..
Inverell ..	85	68	0
Bourke ..	97	61	0
Narrabri ..	92	66	0
Armidale .	80	53	0
Gunnedah	..	..	..
Tamworth	92	62	0
P. Macqrie	80	62	0
Murr'undi	81	45	0
Cassi[s ..	88	62	0·23
Mus'brook	95	62	0
Dubbo ..	88	67	0
Maitland ..	88	63	0
Newcastle	81	67	0
Orange ..	78	57	0·04
Bathurst ..	..	..	..
Mt Victoria	..	..	..
Forbes ..	80	46	0
SYDNEY ..	80	65	0·20
Wentw'th.	..	..	..
Young ...	..	..	..
Woll'gong	81	65	0
Euston ..	..	..	..
Goulburn	81	57	0
Wagga ...	91	60	0
Cape Geo.	81	66	0·02
Queanb'an	85	54	0
Urana....	..	..	..
Deniliquin	..	..	..
Albury ..	93	50	0
Bodalla ..	86	54	0
Cooma ..	..	..	..
Eden	80	63	1
Gabo Isld.	73	63	0·12



SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 32′ 45″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664
Average of previous 18 Years for period 1 Jan to 1 Feb.. 3·897
Total Rainfall from 1 Jan. to 16 March..... 3·981

EXPLANATION:— O, Cape Otway; PD, Port Darwin; R, Rockhampton; B, Brisbane; G, Grafton; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George; E, Eden; M, Melbourne; P, Portland; A, Adelaide; AA, Albury; W, Wentworth; D, Deniliquin; BO, Bourke; WP Wilsons Promty

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

WEATHER MAP,

17 MARCH, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterf'ld	..	..	..
Grafton	..	..	..
Inverell	85	58	0·21
Bourke	103	59	0
Narrabri	97	63	0·85
Armidale	79	55	0·15
Gunnedah	..	..	..
Tamworth	92	61	0·35
P. Macqrie	81	62	1·10
Murr'undi	86	45	0
Cassilis	..	..	..
Mus'brook	97	63	0
Dubbo	82	61	0
Maitland	82	68	0
Newcastle	84	59	0·03
Orange	78	60	0
Bathurst	94	52	0
Mt Victoria	..	..	..
Forbes	83	58	0
SYDNEY	77	65	0·94
Wentw'th.	..	..	..
Young	86	57	0·15
Woll'gong	71	65	0·40
Euston	..	..	..
Goulburn	86	56	0·19
Wagga	94	62	0
Cape Geo	72	59	0·96
Queanb'an	..	..	..
Urana	..	..	..
Deniliquin	82	48	0
Albury	89	52	0
Rodalla	..	..	..
Cooma	..	..	..
Eden	72	60	0
Cabo Isld.	65	59	0·04

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.
LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 32′ 45″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Fahr. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664
Average of previous 18 Years for period 1 Jan to 1 Feb.. 3·897
Total Rainfall from 1 Jan. to 17 March..... 4·872

EXPLANATION :— O, Cape Otway; PD, Port Darwin; R, Rockhampton; B, Brisbane; G, Grafton; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George; E, Eden; M, Melbourne; P, Portland; A, Adelaide; AA, Albury; W, Wentworth; D, Deniliquin; BO, Bourke; WP Wilsons Promty

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

W — E

S

R No report

B No report

G No report

L. Torrens

Cloudy GENERALLY

1

PM 4-30·19 R 70

N 1-30·30 R 68

S 2·30·27 R 66

W No report

A 0·30·15 R 60

1-30·27 R 69 AA

Show'rs

C 9-30·18 R 61

1-30·26 R 62

5-30·29 R 61 P

M

O

E 1-30·28 R 63

9-30·35 R 62

7-30·20 R 61 WP

TASMAN SEA

WEATHER MAP,

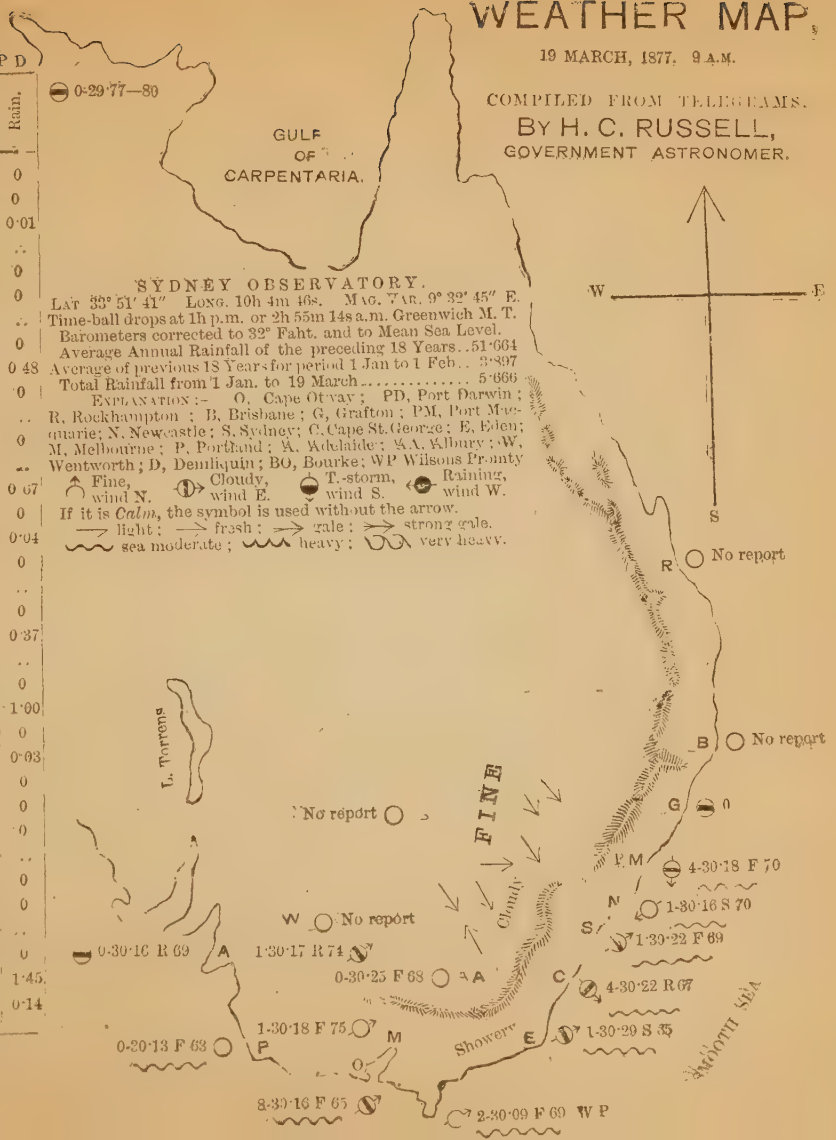
19 MARCH, 1877. 9 A.M.

COMPILED FROM TELEGRAMS.

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Max.	Min	Rain.
Tenterf'ld	75	..	0
Grafton ..	91	50	0
Inverell ..	81	34	0·01
Bourke ..	..	..	..
Narrabri ..	92	62	0
Armidale .	78	55	0
Gunnedah	..	..	..
Tamworth	87	63	0
P. Macqrie	77	64	0 48
Murr'undi	71	43	0
Cassilis ..	..	..	..
Mus'br'ok	86	62	0
Dubbo ..	..	..	..
Maitland..	73	62	0 67
Newcastle	79	66	0
Orange ..	66	54	0·04
Bathurst..	82	50	0
Mt Victoria	..	..	..
Forbes ..	81	57	0
SYDNEY ..	72	64	0·37
Wentw'th.	..	..	..
Young ..	82	57	0
Woll'gong	76	63	1·00
Euston ..	91	53	0
Goulburn	72	55	0·03
Wagga ..	82	62	0
Cape Geo	73	65	0
Queanb'an	78	58	0
Urana....	..	..	..
Deniliquin	93	58	0
Albury ..	94	53	0
Bodalla ..	..	..	..
Cooma ..	76	45	0
Eden	68	64	1·45
Cape Isld.	71	64	0·14

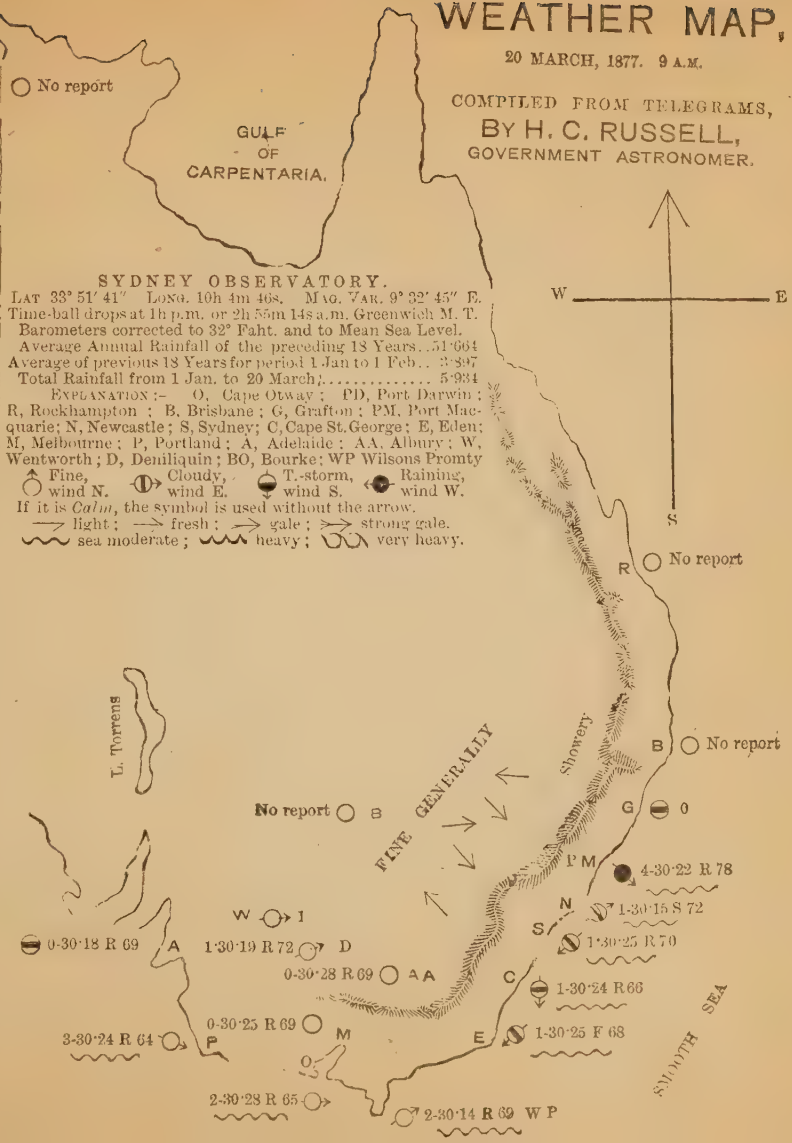


WEATHER MAP,

20 MARCH, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min	Rain.
Tenterfi'ld	73	60	0
Grafton ..	88	66	0·40
Inverell ..	81	54	0·05
Bourke ..	..	..	..
Narrabri ..	84	62	0
Armidale .	79	51	1·29
Gunnedah	..	..	..
Tamworth	89	62	0·01
P. Macqrie	77	64	0·47
Murr'undi	76	42	0
Cassilis ..	..	..	..
Mus'brook	84	63	0
Dubbo ..	85	59	0
Maitland ..	78	65	0
Newcastle	79	69	0·05
Orange ..	79	55	0
Bathurst ..	82	53	0
MtVictoria	..	..	..
Forbes ..	80	59	0
SYDNEY ..	73	64	0·27
Wentw'th.	102	..	0·05
Young ..	84	57	0
Woll'gong	74	60	1·05
Euston ..	94	62	0
Goulburn	73	56	0
Wagga ..	88	65	0
Cape Geo.	72	63	0·39
Queanb'an	68	52	0
Urana	..	..	..
Deniliquin	92	62	0·02
Albury ..	75	52	0
Bodalla ..	79	59	0
Cooma ..	78	52	0
Eden	72	63	0·27
Gabo Isld.	72	64	0 02

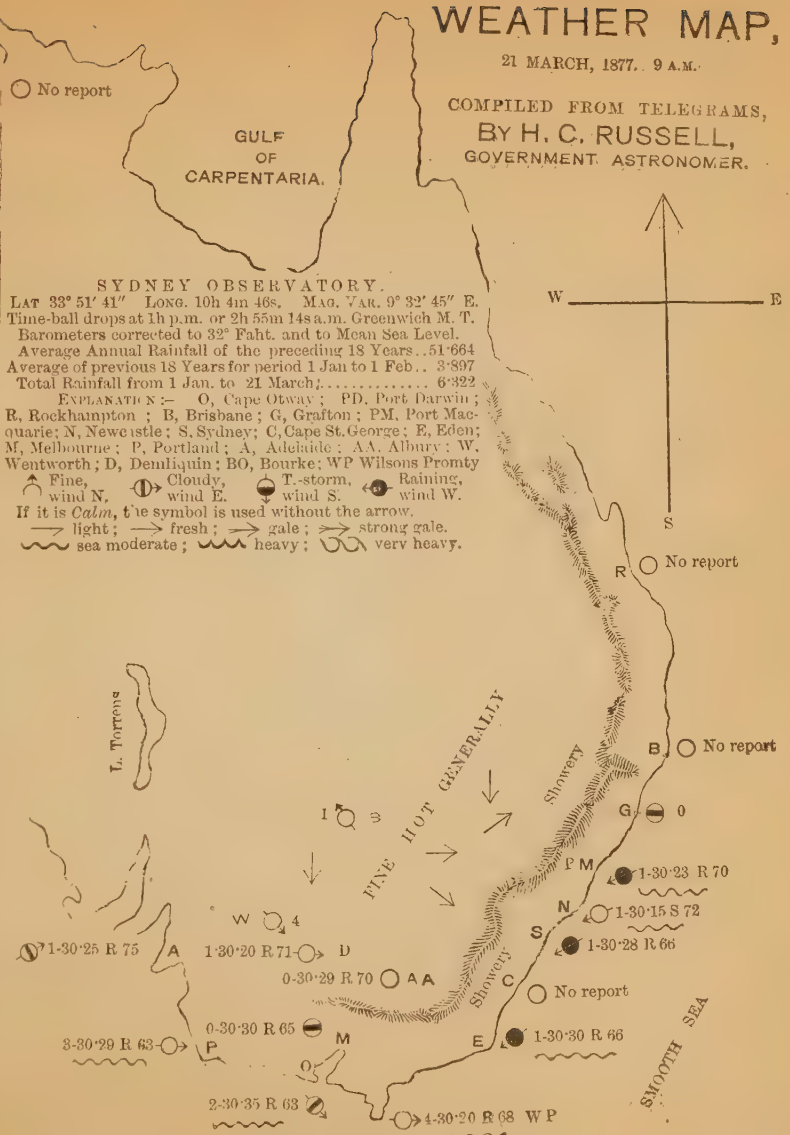


WEATHER MAP,

21 MARCH, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain. (P D)
Tenterfi'ld	70	..	0
Grafton ..	85	65	0·37
Inverell ..	84	53	4·58
Bourke ..	96	6.	0
Narrabri ..	85	62	0
Armidale ..	73	52	0
Gunnedah	..	..	..
Tamworth	85	58	0·20
P. Macqrie	74	62	0·59
Murr'undi	80	45	0
Cassilis ..	83	60	0
Mus'brook	87	61	0
Dubbo ..	84	46	0
Maitland ..	80	62	0
Newcastle	80	56	0
Orange ..	75	57	0
Bathurst ..	79	55	0
Mt Victoria	..	..	..
Forbes ..	81	61	0
SYDNEY ..	73	63	0·37
Wentw'th.	97	..	0
Young ..	83	57	0
Wol'gong	..	..	..
Euston ..	100	65	0
Goulburn	78	55	0
Wagga ..	87	66	0
Cape Geo.	..	..	..
Queanb'an	82	60	0
Urana	..	..	..
Deniliquin	90	64	0
Albury ..	95	54	0
Bodalla ..	78	58	0
Cooma ..	81	56	0
Eden	74	62	0·28
Gabo Isld.	72	64	0·10

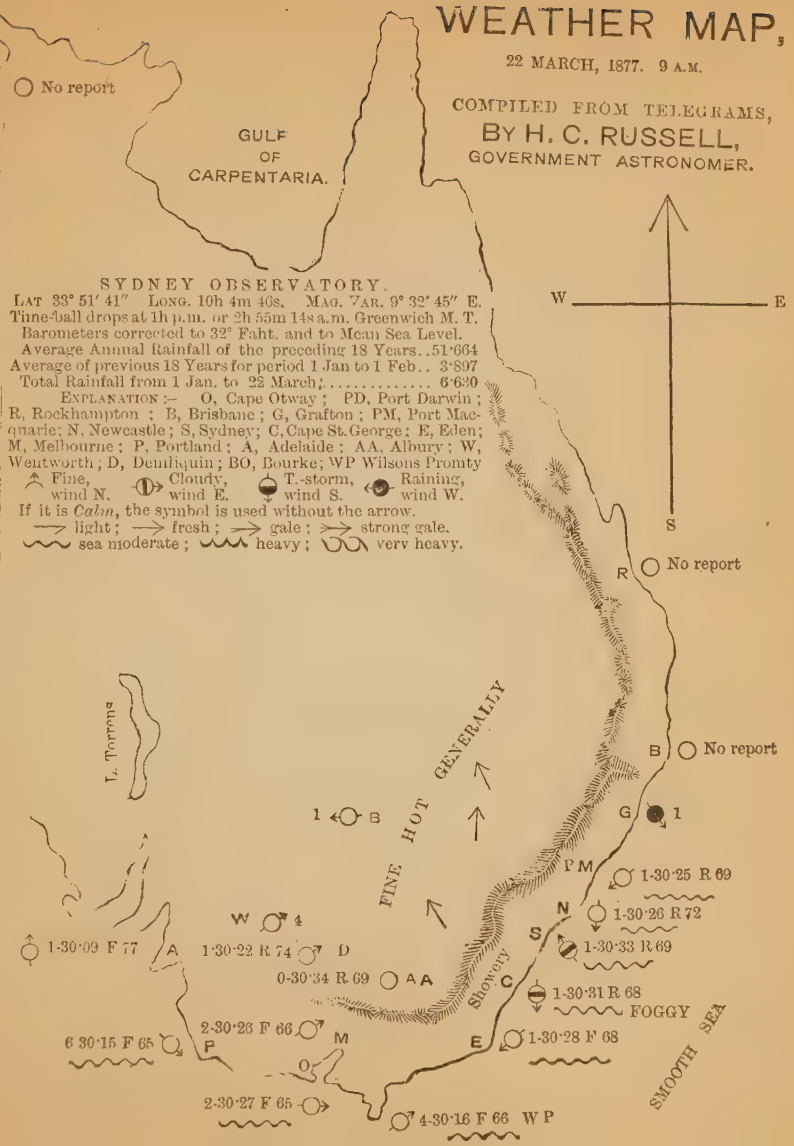


WEATHER MAP,

22 MARCH, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	72	60	0·03
Grafton ..	86	60	0·18
Ingerell ..	81	53	0
Bourke ..	88	61	0
Narrabri ..	100	64	0
Armidale .	71	54	0
Gunnedah	..	..	..
Tamworth	85	57	0
P. Macqrie	77	61	0·10
Murr'undi	81	45	0
Cassilis ..	..	..	..
Mus'brook	87	45	0
Dubbo ..	85	67	0
Maitland ..	80	60	0·03
Newcastle	79	51	0·23
Orange ..	78	56	0
Bathurst ..	81	54	0
Mt Victoria	..	..	..
Forbes ..	82	65	0
SYDNEY ..	73	63	0·31
Wentw'th.	104	..	0
Young ..	84	52	0
Woll'gong	73	62	0·32
Euston ..	100	69	0
Goulburn	78	55	0
Wagga ..	83	64	0
Cape Geo.	73	64	0·14
Queanb'an	81	56	0
Urana	..	..	..
Deniliquin	75	64	0
Albury ..	95	53	0
Bodalla ..	83	54	0
Cooma ..	81	42	0
Eden	75	60	0·07
Gabo Isld.	72	64	0·2



SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 32′ 45″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664
Average of previous 18 Years for period 1 Jan to 1 Feb.. 3·897
Total Rainfall from 1 Jan. to 22 March;..... 6·620

EXPLANATION:— O, Cape Otway; PD, Port Darwin; R, Rockhampton; B, Brisbane; G, Grafton; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George; E, Eden; M, Melbourne; P, Portland; A, Adelaide; AA, Albury; W, Wentworth; D, Deniliquin; BO, Bourke; WP Wilsons Promty

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

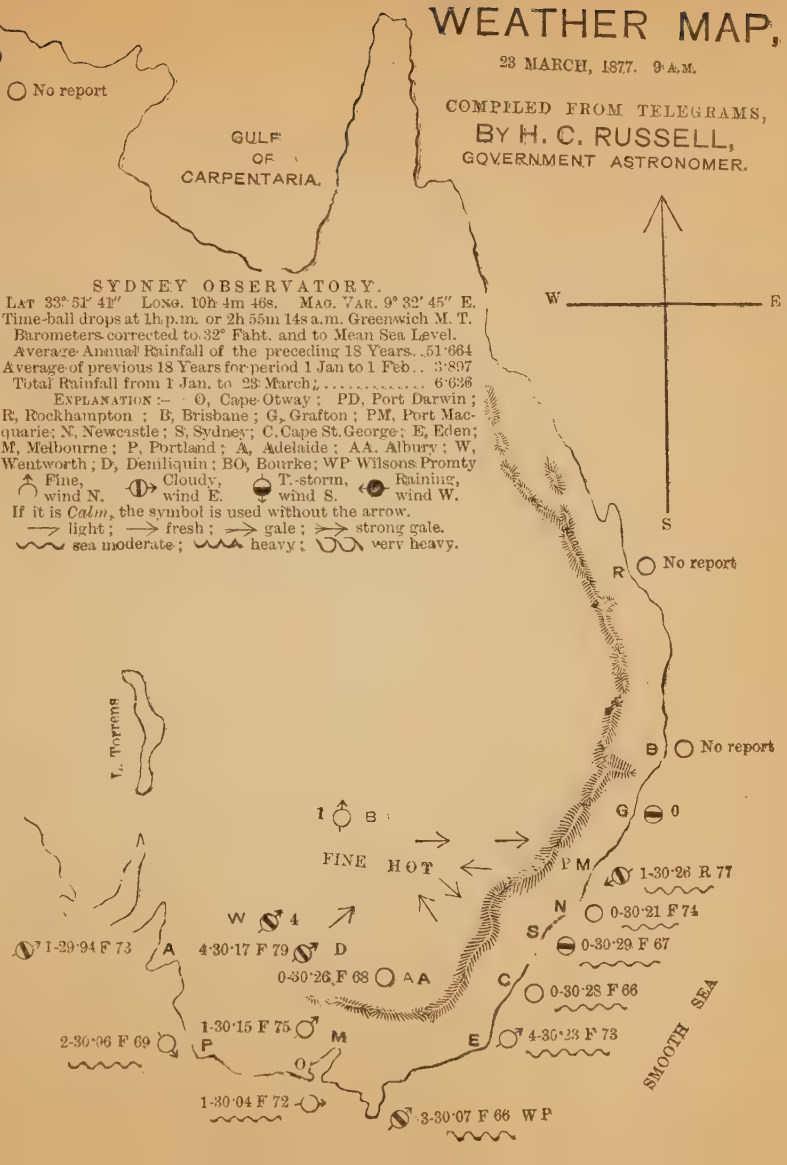
light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

WEATHER MAP,

23 MARCH, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min	Rain.
Tenterfi'ld	80	68	0
Grafton ..	87	60	0
Inverell ..	78	54	0
Bourke ..	91	66	0
Narrabri ..	87	63	0
Armidale .	72	53	0
Gunnedah	..	..	..
Tamworth	85	57	0
P. Macqrie	76	61	0·04
Murr'undi	76	43	0
Cassilis ..	83	54	0
Mus'brook	88	52	0
Dubbo ..	83	65	0
Maitland ..	80	65	0
Newcastle	78	61	0
Orange ..	76	55	0
Bathurst ..	82	46	0
Mt Victoria	..	..	..
Forbes ..	80	60	0
SYDNEY ..	74	61	0·01
Wentw'th.	97	..	0
Young ..	83	54	0
Wollgong	71	61	0
Euston ..	100	63	0·14
Goulburn	8	49	0
Wagga ..	90	66	0
Cape Geo	73	62	0
Queanb'an	83	53	0
Grafton ..	..	..	..
Deniliquin	95	64	0
Albury ..	97	54	0
Bodalla ..	81	55	0
Cooma ..	85	43	0
Eden	75	62	0
Cape Isl'd.	71	63	0



SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 32′ 45″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Fahr. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years. .51·664
Average of previous 18 Years for period 1 Jan to 1 Feb.. 3·897
Total Rainfall from 1 Jan. to 23 March; ..... 6·636

EXPLANATION :— O, Cape Otway ; PD, Port Darwin ; R, Rockhampton ; B, Brisbane ; G, Grafton ; PM, Port Macquarie; N, Newcastle ; S, Sydney; C, Cape St. George ; E, Eden; M, Melbourne ; P, Portland ; A, Adelaide ; AA, Albury ; W, Wentworth ; D, Deniliquin ; BO, Bourke; WP Wilsons Promty

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light ; fresh ; gale ; strong gale.

sea moderate ; heavy ; very heavy.

WEATHER MAP,

24 MARCH, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min	Rain.
Tenterfi'ld	75	8	0
Grafton ..	84	50	0·30
Inverell ..	74	52	0
Bourke ..	93	69	0
Narrabri ..	89	60	0
Armidale ..	70	54	0
Gunnedah	..	..	..
Tamworth	81	57	0
P. Macqrie	76	58	0·01
Murr'undi	79	45	0
Cassilis ..	85	56	0
Mus'brook	82	53	0
Dubbo ..	79	61	0
Maitland ..	83	64	0
Newcastle	78	58	0
Orange ..	73	55	0
Bathurst ..	78	48	0
Mt Victoria	..	..	..
Forbes ..	81	61	0
SYDNEY ..	74	64	0
Wentw'th.	..	..	..
Young ..	81	58	0
Wolf'gong	71	60	0
Euston ..	99	67	0·20
Goulburn	76	49	0
Wagga ..	89	65	0
Cape Geo	73	69	0
Queanb'an	94	55	0
Urana	..	..	..
Deniliquin	94	67	0
Albury ..	95	54	0
Bodalla ..	81	48	0
Cooma ..	84	44	0
Eden	77	62	0
Cabo Isld.	72	63	0

PD

No report

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT 33° 51′.41″ LONG. 10h 4m 46s. MAG. VAR. 9° 32′ 45″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664
Average of previous 18 Years for period 1 Jan to 1 Feb.. 5·897
Total Rainfall from 1 Jan. to 24 March..... 6·636

EXPLANATION :— O, Cape Otway ; PD, Port Darwin ; R, Rockhampton ; B, Brisbane ; G, Grafton ; PM, Port Macquarie; N, Newcastle ; S, Sydney ; C, Cape St. George ; E, Eden ; M, Melbourne ; P, Portland ; A, Adelaide ; AA, Albury ; W, Wentworth ; D, Deniliquin ; BO, Bourke ; WP Wilsons Promontory

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light ; fresh ; gale ; strong gale.

sea moderate ; heavy ; very heavy.

W E S

No report

No report

No report

L. Torrens

FINE HOT GENERALLY

No report 3

G 1

PM 4·30·08 F 66

N 1·30·21 S 72

S 1·30·29 S 67

W No report

A 1·30·10 F 73 D

0·30·25 S 68 A

C 0·30·25 F 70

4·30·13 F 76 M

4·30·01 F 70 P

E 9·30·23 S 66

O

1·30·13 R 78

2·30·04 F 69 WP

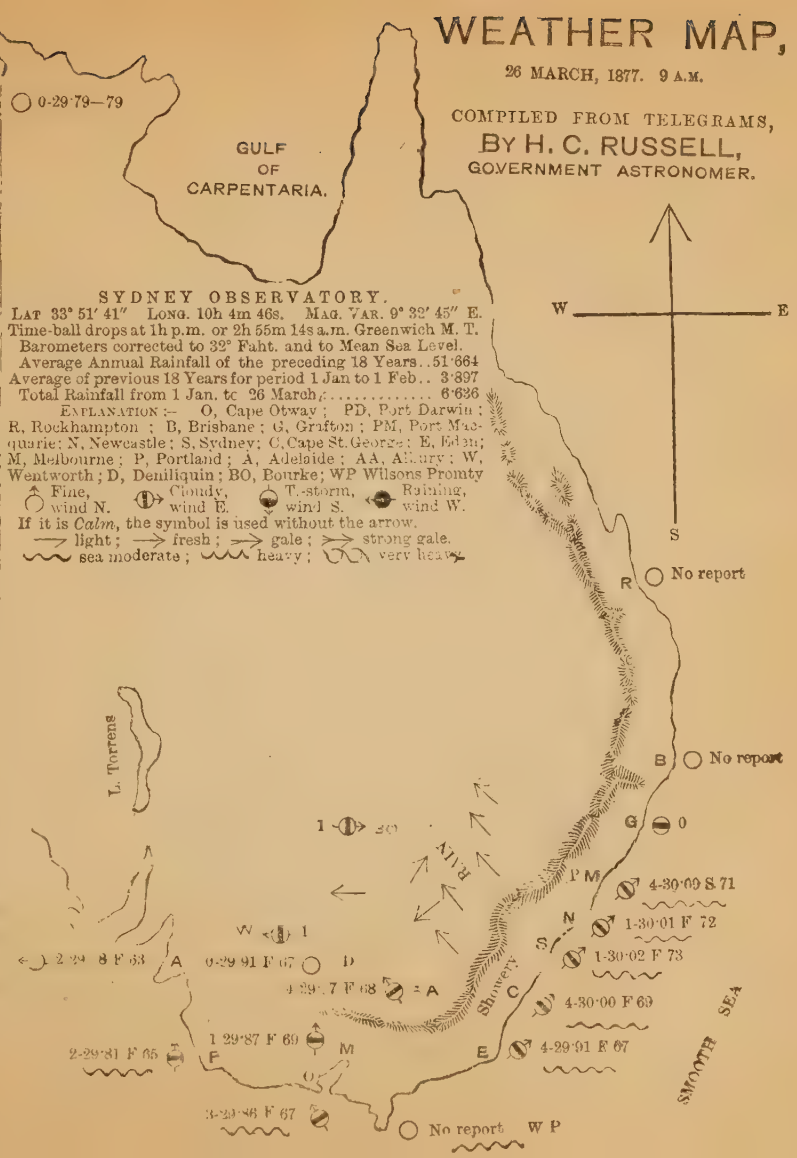
NORTH S.

WEATHER MAP,

26 MARCH, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min	Rain.
Tenterfi'ld	79	60	0·16
Grafton ..	86	65	0·24
Inverell ..	79	63	0
Bourke ..	81	66	0
Narrabri ..	87	70	0
Armidale .	72	53	0
Gunnedah	..	..	..
Tamworth	88	67	0
P. Macqrie	77	68	0·04
Murr'undi	82	58	0
Cassilis ..	87	60	0
Mus'brook	92	65	0
Dubbo ..	80	60	0·25
Maitland ..	83	65	0
Newcastle	79	67	0
Orange ..	73	62	0·92
Bathurst ..	83	60	0·38
Mt Victoria	..	..	..
Forbes ..	74	64	0·45
SYDNEY ..	76	68	0
Wentw'th.	80	..	0
Young ..	86	62	0·78
Woll'gong	76	65	0
Euston ..	80	52	0
Goulburn	79	61	0
Wagga ..	..	..	..
Cape Geo	73	67	0·08
Queanb'an	82	52	0·42
Urana	..	..	..
Deniliquin	83	60	1·30
Albury ..	90	61	0·70
Bodalla ..	65	62	0·70
Cooma ...	71	5.	0·17
Eden	75	65	0·04
Gabo Isld.	71	63	0

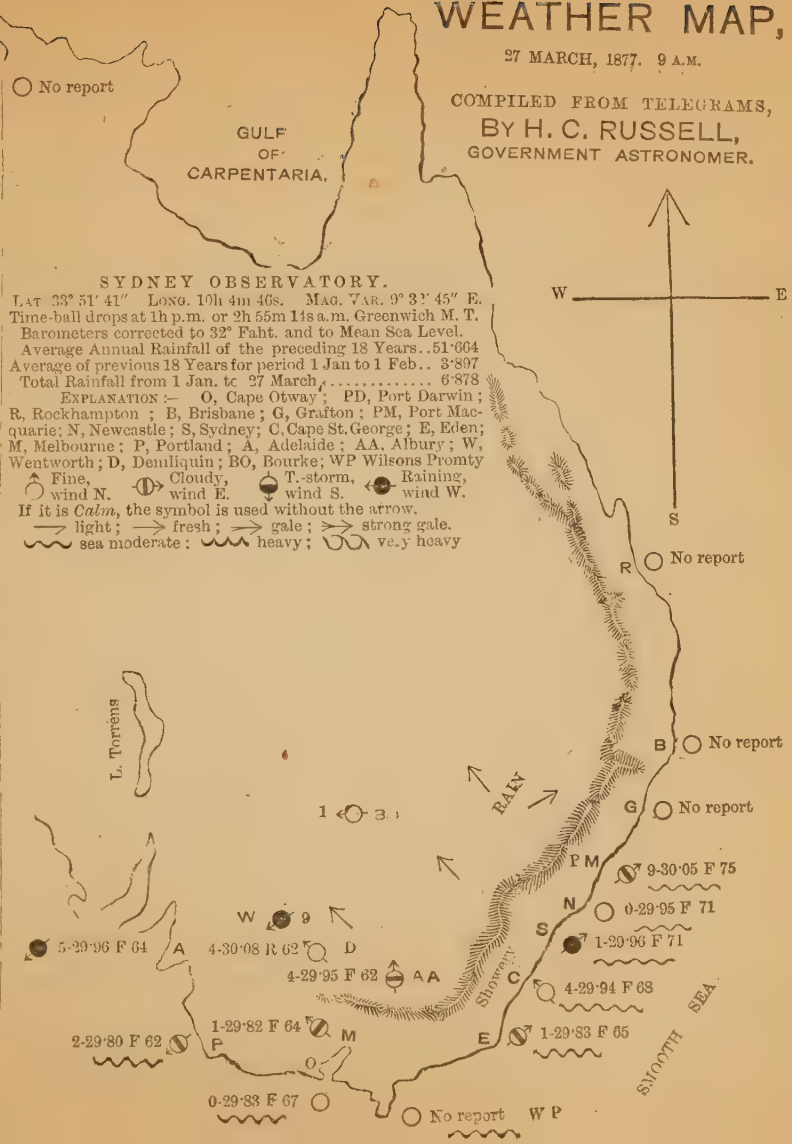


WEATHER MAP,

27 MARCH, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min	Rain.
Tenterfi'ld	73	52	0
Grafton	..	..	..
Inverell	79	64	0
Bourke	90	62	0
Narrabri	87	67	0·59
Armidale	73	60	0
Gunnedah	..	.	..
Tamworth	88	68	0·06
P. Macqrie	79	67	0
Murr'undi	80	44	0
Cassilis	81	52	1·05
Mus'brook	92	63	0·13
Dubbo	..	..	..
Maitland	86	72	0
Newcastle	78	68	0
Orange	69	60	0·36
Bathurst	..	..	..
Mt Victoria	..	..	..
Forbes	73	66	0
SYDNEY	78	69	0·24
Wentw'th.	76	..	0
Young	75	62	0
Woll'gong	76	65	0
Euston	96	52	0·03
Goulburn	76	53	0·41
Wagga	79	63	0·02
Cape Geo.	72	64	0·51
Queanb'an	73	61	0·13
Urana	..	..	..
Deniliquin	80	51	0
Albury	84	58	0·44
Bodalla	83	55	0
Cooma	..	..	..
Eden	74	63	0·03
Gabo Isld.	71	61	0·07



SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 32′ 45″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664
Average of previous 18 Years for period 1 Jan to 1 Feb.. 3·897
Total Rainfall from 1 Jan. to 27 March..... 6·878

EXPLANATION :— O, Cape Otway; PD, Port Darwin; R, Rockhampton; B, Brisbane; G, Grafton; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George; E, Eden; M, Melbourne; P, Portland; A, Adelaide; AA, Albury; W, Wentworth; D, Deniliquin; BO, Bourke; WP Wilsons Promty

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

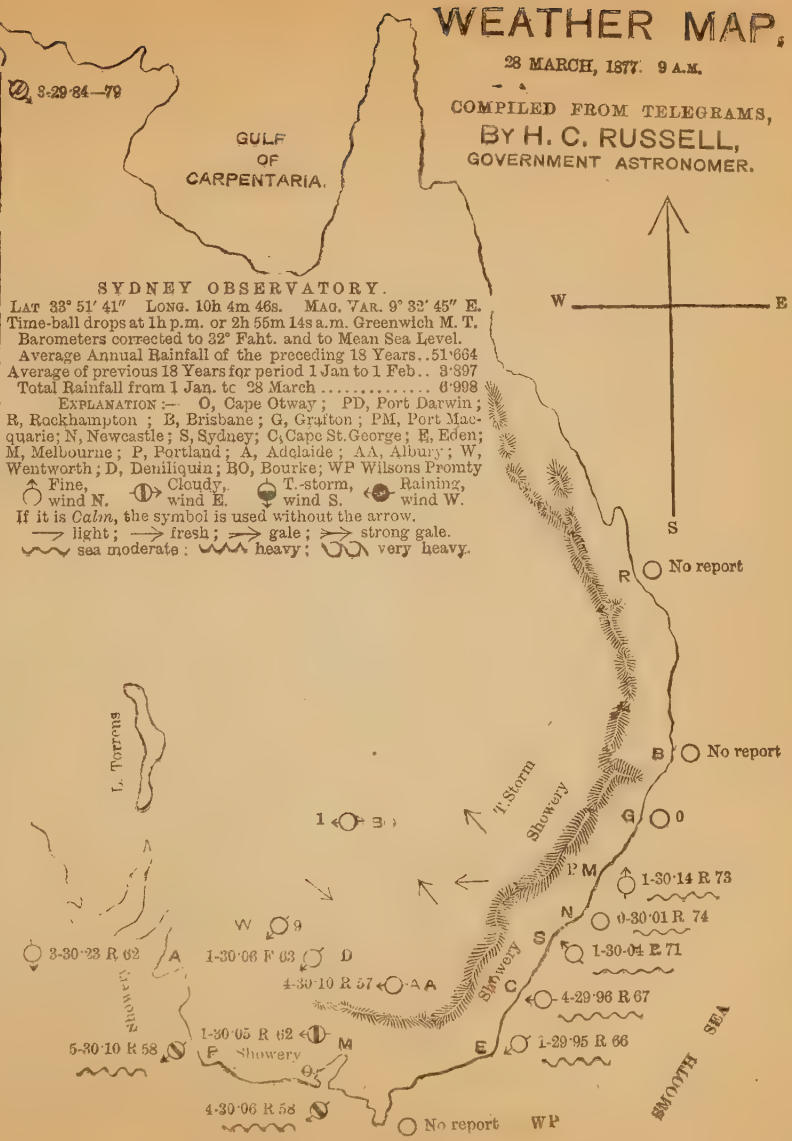
sea moderate; heavy; very heavy

WEATHER MAP,

28 MARCH, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	72	53	0
Grafton ..	89	65	0
Inverell ..	81	65	0·20
Bourke ..	88	53	0
Narrabri ..	85	62	2·35
Armidale .	75	60	0·10
Gunnedah	..	.	..
Tamworth	82	65	0·68
P. Macqrie	78	69	0·14
Murr'undi	78	46	0
Cassilis ..	70	59	0·82
Mus'brook	80	62	0·55
Dubbo ..	..	..	..
Maitland ..	76	53	0
Newcastle	80	61	0
Orange ..	72	51	0·01
Bathurst .	..	..	..
MtVictoria	73	50	0
Forbes ..	75	54	0
SYDNEY ..	79	65	0·12
Wentw'th.	76	..	0·10
Young ..	75	50	0·92
Woll'gong	81	62	0
Euston ..	112	59	0·01
Goulburn	79	53	0
Wagga ..	76	56	0
Cape Geo.	78	64	0
Queanb'an	..	.	..
Urana ..		..	..
Deniliquin	72	58	0
Albury ..	77	47	0·20
Bodalla ..	76	48	0
Cooma ..		.	..
Eden	76	58	0·01
Gabo Isld.	68	58	0·39



SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 32′ 45″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664
Average of previous 18 Years for period 1 Jan to 1 Feb.. 3·397
Total Rainfall from 1 Jan. to 28 March ..... 6·998

EXPLANATION :— O, Cape Otway ; PD, Port Darwin ; R, Rockhampton ; B, Brisbane ; G, Grafton ; PM, Port Macquarie; N, Newcastle ; S, Sydney; C, Cape St. George ; E, Eden; M, Melbourne ; P, Portland ; A, Adelaide ; AA, Albury ; W, Wentworth ; D, Deniliquin ; BO, Bourke; WP Wilsons Promty

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light ; fresh ; gale ; strong gale.

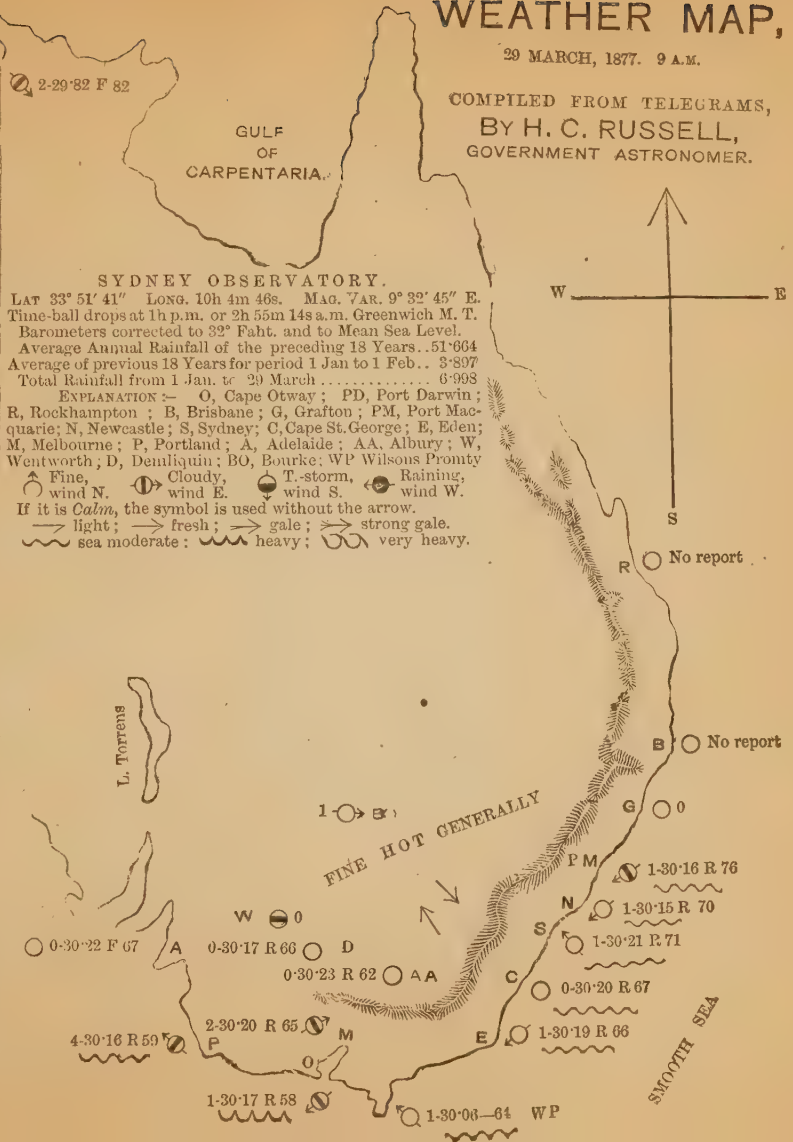
sea moderate : heavy ; very heavy.

WEATHER MAP,

29 MARCH, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	79	63	0
Grafton ..	93	70	0
Inverell ..	81	62	0
Bourke ..	84	53	0
Narrabri ..	92	64	0·35
Armidale .	75	61	0 03
Gunnedah	81	62	0·04
Tamworth	75	61	0·40
P. Macqrie	78	66	0·02
Murr'undi	72	..	0
Cassilis ..	75	60	0
Mus'brook	86	63	0
Dubbo ..	..	..	..
Maitland..	83	52	0
Newcastle	79	65	0
Orange ..	70	55	0
Bathurst..	79	48	0
MtVictoria	..	..	..
Forbes ..	77	56	0
SYDNEY ..	80	64	0
Wentw'th.	76	..	0
Young ..	75	59	0
Woll'gong	71	60	0
Euston ..	71	51	0
Goulburn	75	50	0
Wagga ..	76	56	0
Cape Geo.	73	63	0
Queanb'an	76	53	0
Urana....	..	..	..
Deniliquin	73	55	0
Albury ..	80	50	0
Bodalla ..	82	50	0
Cooma ..	83	48	0
Eden	71	57	0
Gabo Isld.	67	60	0·02

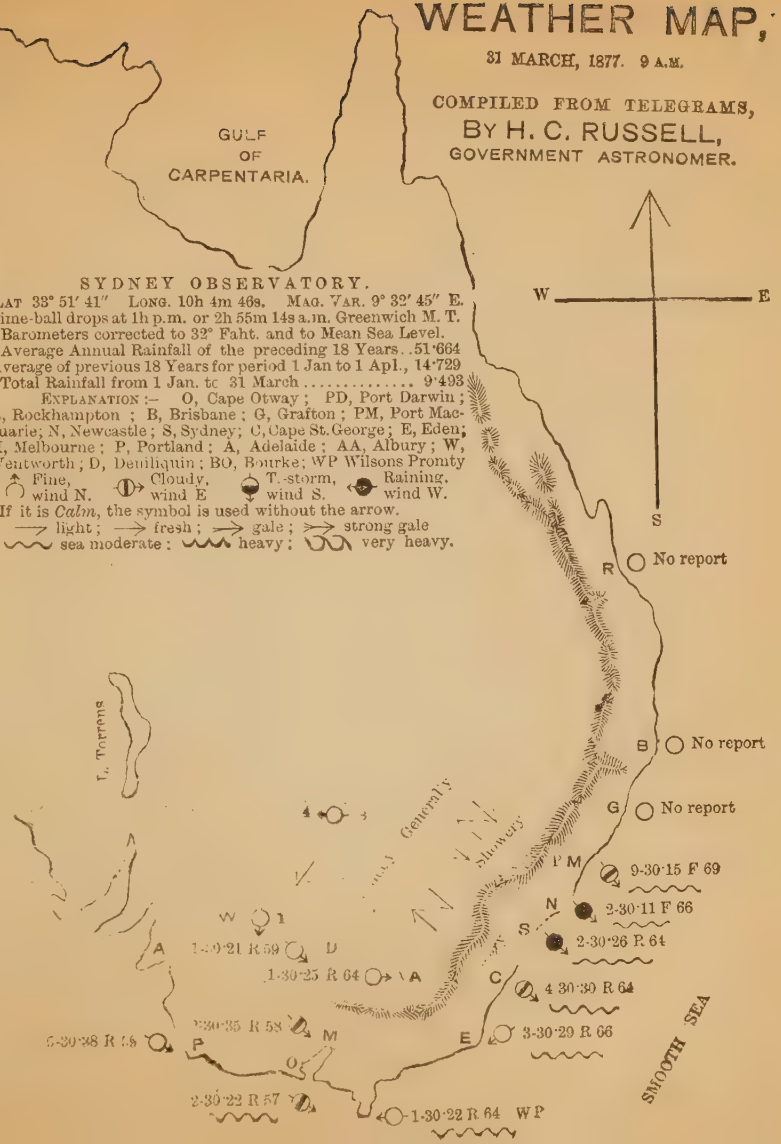


WEATHER MAP,

31 MARCH, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	P D Rain.
Tenterfi'ld	75	..	0
Grafton ..	..	..	..
Inverell ..	81	56	0
Bourke ..	90	55	0
Narrabri ..	86	64	0
Armidale .	75	53	0 04
Gunnedah	82	63	0
Tamworth	84	59	0
P. Macqrie	79	66	0
Murr'undi	81	..	0
Cassilis ..	81	55	0
Mus'brook	86	62	0·64
Dubbo ..	..	..	..
Maitland..	85	66	0·18
Newcastle	79	60	0.20
Orange ..	74	55	0
Bathurst..	87	52	0·02
Mt Victoria	..	..	..
Forbes ..	75	52	0
SYDNEY ..	79	63	2·50
Wentw'th.	82	..	0
Young ..	..	..	..
Woll'gong	71	60	1·0
Euston ..	81	52	0
Goulburn	85	54	0
Wagga ..	81	55	0
Cape Geo	71	61	·2
Queanb'an	82	55	0
Urana....	..	..	..
Deniliquin	82	44	0
Albury ..	85	49	0
Bodalla ..	80	59	0
Cooma ..	80	50	0
Eden	74	59	0
Gabo Isld.	67	60	0

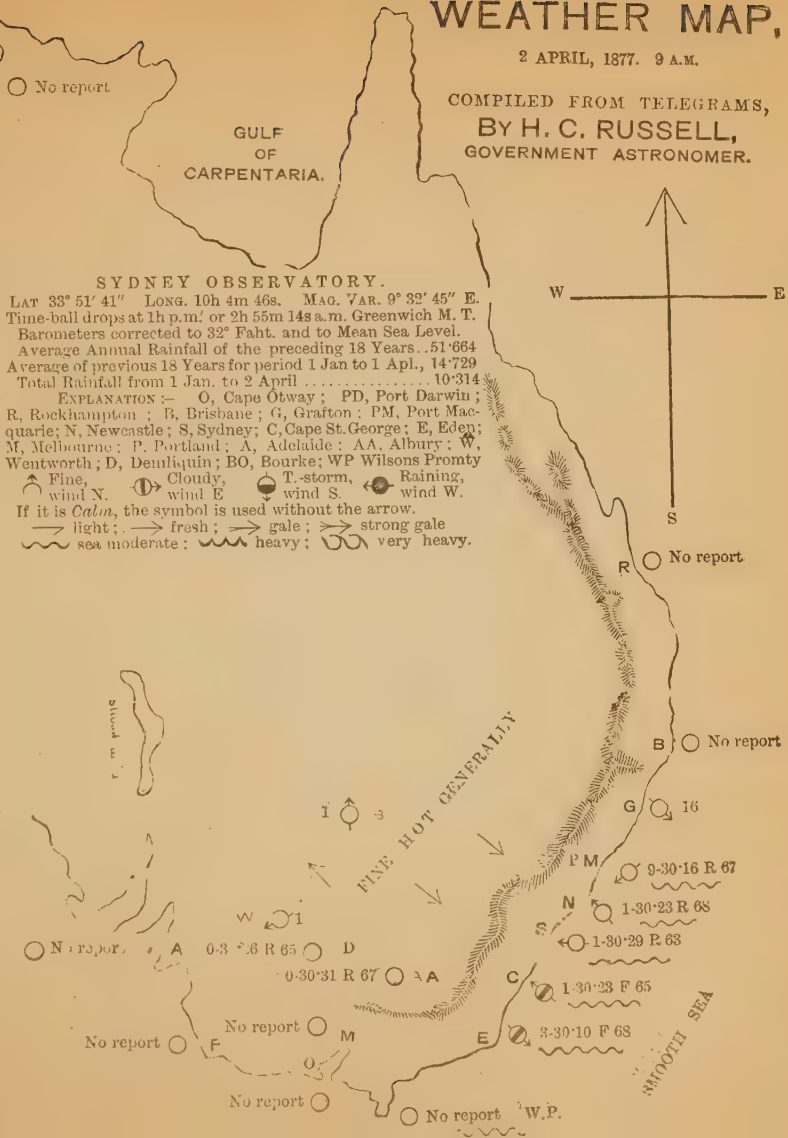


WEATHER MAP,

2 APRIL, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	P D Rain.
Tenterfi'ld	74	..	0
Grafton ..	85	51	0
Inverell ..	79	49	0 10
Bourke ..	89	58	0
Narrabri ..	82	60	0
Armidale .	71	51	0 05
Gunnedah	..	..	..
Tamworth	80	50	0
P. Macqrie	75	53	0·02
Murr'undi	83	..	0
Cassilis ..	82	54	0
Mus'brook	78	52	0
Dubbo ..	81	59	0
Maitland..	73	51	0·76
Newcastle	76	59	0
Orange ..	73	47	0
Bathurst..	..	..	..
Mt Victoria	65	48	0·35
Forbes ..	..	..	..
SYDNEY ..	72	58	0
Wentw'th.	89	..	0
Young ..	78	60	0
Woll'gong	71	55	0
Euston ..	80	56	0
Goulburn	73	46	0
Wagga ..	81	57	0
Cape Geo	68	58	0
Queanb'an	73	49	0
Urana....	..	..	..
Deniliquin	86	57	0
Albury ..	86	48	0
Bodalla ..	76	67	0
Cooma ..	75	39	0
Eden	74	67	0
Cabo Isld.	68	69	0



SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 32′ 45″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664
Average of previous 18 Years for period 1 Jan to 1 Apl., 14·729
Total Rainfall from 1 Jan. to 2 April .....10·314

EXPLANATION :— O, Cape Otway; PD, Port Darwin; R, Rockhampton; B, Brisbane; G, Grafton; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George; E, Eden; M, Melbourne; P, Portland; A, Adelaide; AA, Albury; W, Wentworth; D, Deniliquin; BO, Bourke; WP Wilsons Promty

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

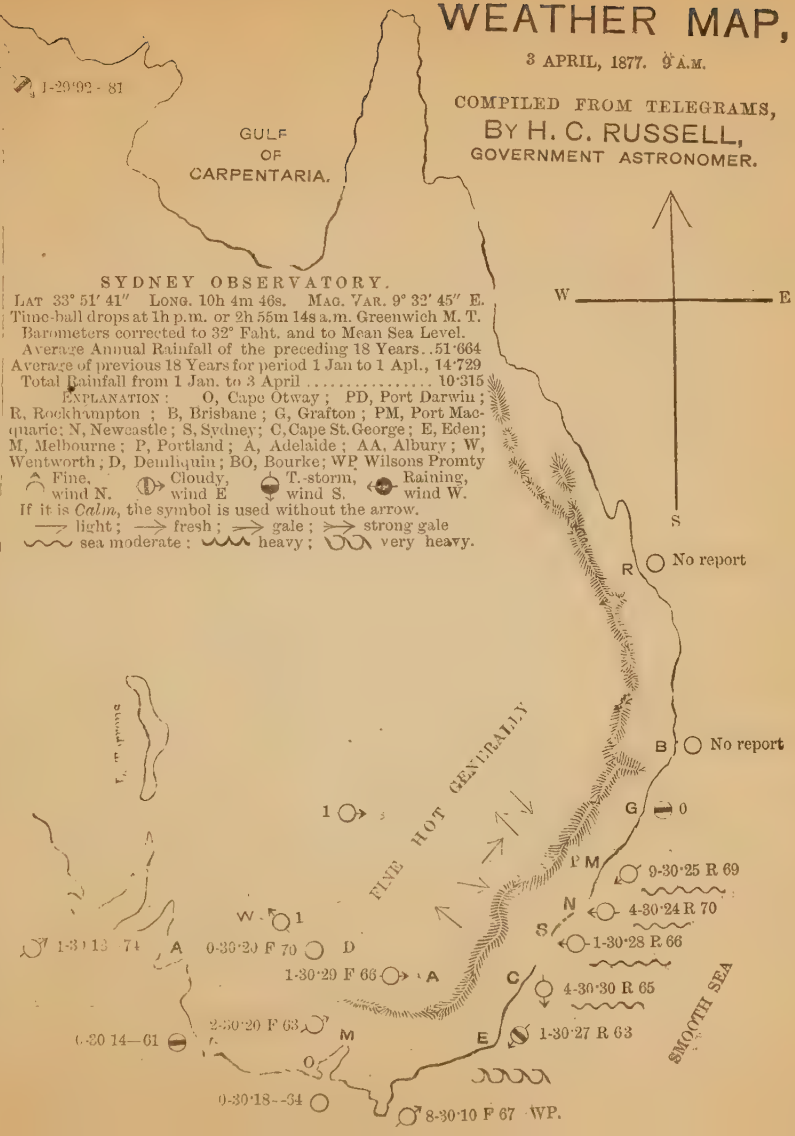
light; fresh; gale; strong gale
sea moderate; heavy; very heavy.

WEATHER MAP,

3 APRIL, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterf'ld	73	..	0
Grafton ..	80	56	0 01
Inverell ..	83	49	0
Bourke ..	90	51	0
Narrabri ..	87	55	0
Armidale .	68	53	0
Gunnedah	..	..	.
Tamworth	81	49	0
P. Macqrie	75	60	0
Murr'undi	79	..	0
Cassilis ..	83	46	0
Mus'brook	80	51	0
Dubbo ..	..	..	..
Maitland ..	75	46	0
Newcastle	76	53	0
Orange ..	71	48	0
Bathurst ..	..	..	.
Mt Victoria	68	47	0
Forbes ..	..	..	..
SYDNEY ..	75	61	0
Wentw'th	89	..	0
Young ..	80	51	0
Wo'l'gong	75	62	0
Euston ..	93	53	0
Goulburn	82	53	0
Wagga	85	57	0
Cape Geo	72	55	0
Queanb'an	7[illegible]	55	0
Ur[illegible]	..		..
Deni'quin	90	[illegible]	0
Albury ..	85	48	0
Bodalla .	8[illegible]	5[illegible]	0
Cooma ..	83	4[illegible]	0
Eden . ..	74	59	0
Cabo Isld.	66	69	0



SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 32′ 45″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years. . 51·664
Average of previous 18 Years for period 1 Jan to 1 Apl., 14·729
Total Rainfall from 1 Jan. to 3 April ..... 10·315

EXPLANATION: O, Cape Otway; PD, Port Darwin; R, Rockhampton; B, Brisbane; G, Grafton; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George; E, Eden; M, Melbourne; P, Portland; A, Adelaide; AA, Albury; W, Wentworth; D, Deniliquin; BO, Bourke; WP Wilsons Promty

Fine, wind N. Cloudy, wind E T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

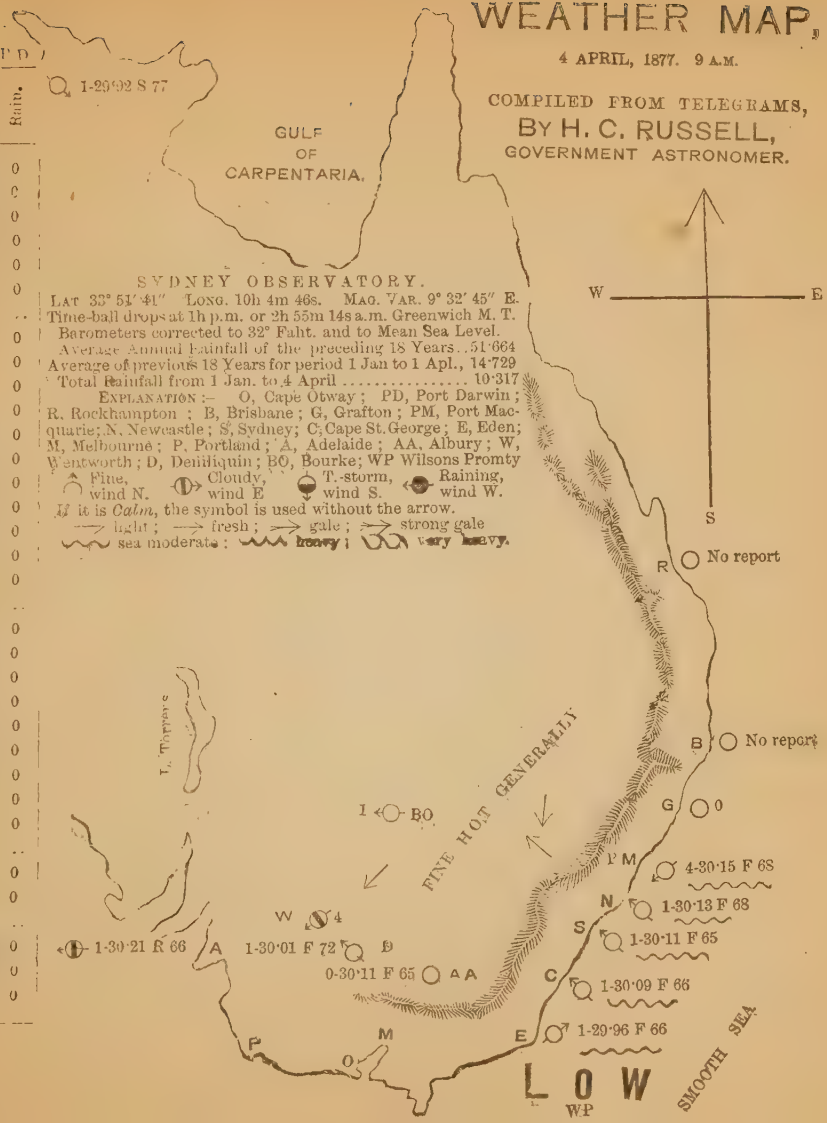
light; fresh; gale; strong gale
sea moderate; heavy; very heavy.

WEATHER MAP,

4 APRIL, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	72	..	0
Grafton ..	81	40	0
Inverell ..	78	48	0
Bourke ..	90	50	0
Narrabri ..	92	54	0
Armidale .	69	43	0
Gunnedah	..	..	..
Tamworth	82	51	0
P. Macqrie	77	48	0
Murr'undi	76	..	0
Cassilis ..	78	49	0
Mus'brook	81	53	0
Dubbo ..	74	59	0
Maitland..	78	56	0
Newcastle	78	43	0
Orange ..	72	47	0
Bathurst..	83	43	0
MtVictoria	72	50	0
Forbes ..	..	..	..
SYDNEY ..	74	61	0
Wentw'th.	95	..	0
Young ..	81	50	0
Woll'gong	76	60	0
Euston ..	100	53	0
Goulburn .	83	45	0
Wagga ..	87	59	0
Cape Geo.	71	61	0
Queanb'an	78	56	0
Urana....	..	..	..
Deniliquin	81	63	0
Albury ..	80	51	0
Bodalla ..	..	..	..
Cooma ..	84	38	0
Eden	70	58	0
Gabo Isld.	69	61	0

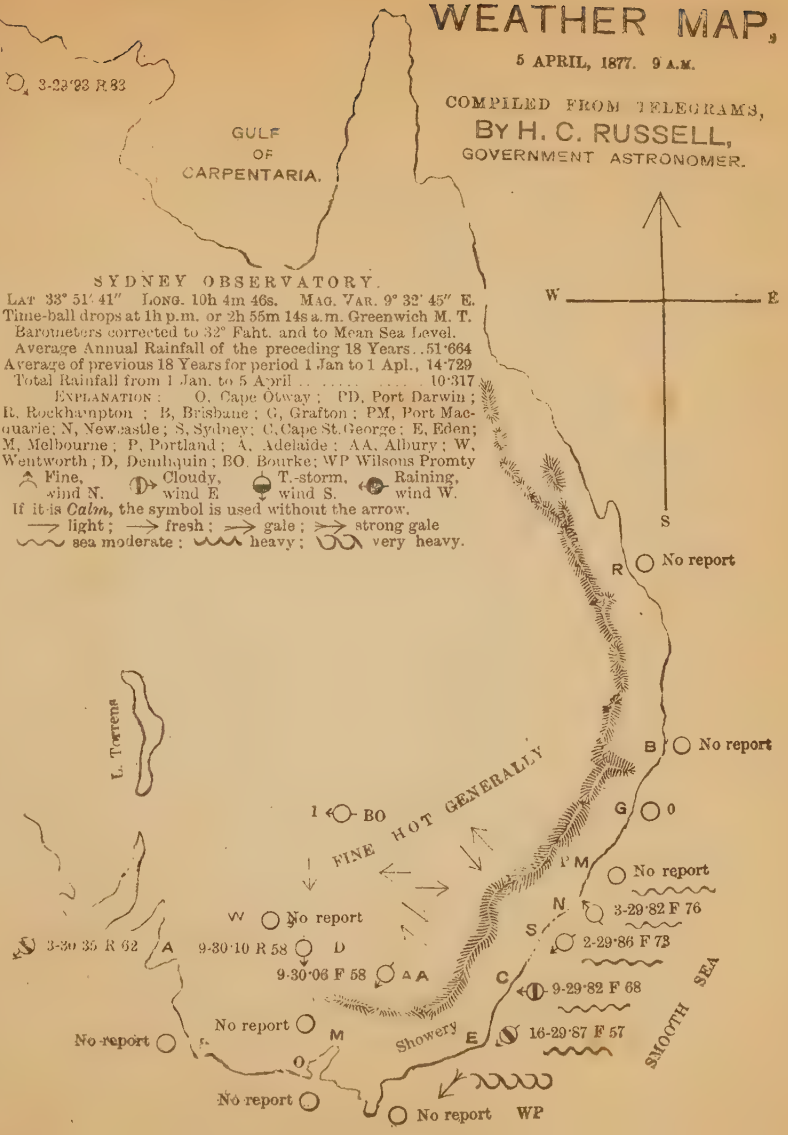


WEATHER MAP,

5 APRIL, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfield	75	..	0
Grafton ..	91	55	0
Inverell ..	77	45	0
Bourke ..	89	56	0
Narrabri ..	87	55	0
Armidale .	70	49	0
Gunnedah	..	..	..
Tamworth	85	49	0
P. Macqrie	..	..	..
Murr'undi	81	..	0
Cassilis ..	83	55	0
Mus'brook	83	56	0
Dubbo ..	81	61	0
Maitland..	72	52	0
Newcastle	87	61	0
Orange ..	74	59	0
Bathurst..	..	..	..
Mt Victoria	74	55	0
Forbes ..	77	54	..
SYDNEY ..	78	65	0
Wentw'th.	..	..	..
Young ..	84	55	0
Woll'gong	71	65	0
Euston ..	83	56	0
Goulburn	83	55	0
Wagga ..	91	60	0
Cape Geo	75	65	0
Queanb'an	83	56	0
Urana....	..	..	..
Deniliquin	82	53	0
Albury ..	91	53	0
Bodalla ...	92	55	0
Cooma ..	87	50	0
Eden	89	57	0
Gabo Isld.	73	55	0



SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 32′ 45″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664
Average of previous 18 Years for period 1 Jan to 1 Apl., 14·729
Total Rainfall from 1 Jan. to 5 April ..... 10·317

EXPLANATION: O, Cape Otway; PD, Port Darwin; R, Rockhampton; B, Brisbane; G, Grafton; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George; E, Eden; M, Melbourne; P, Portland; A, Adelaide; AA, Albury; W, Wentworth; D, Deniliquin; BO, Bourke; WP Wilsons Promty

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale

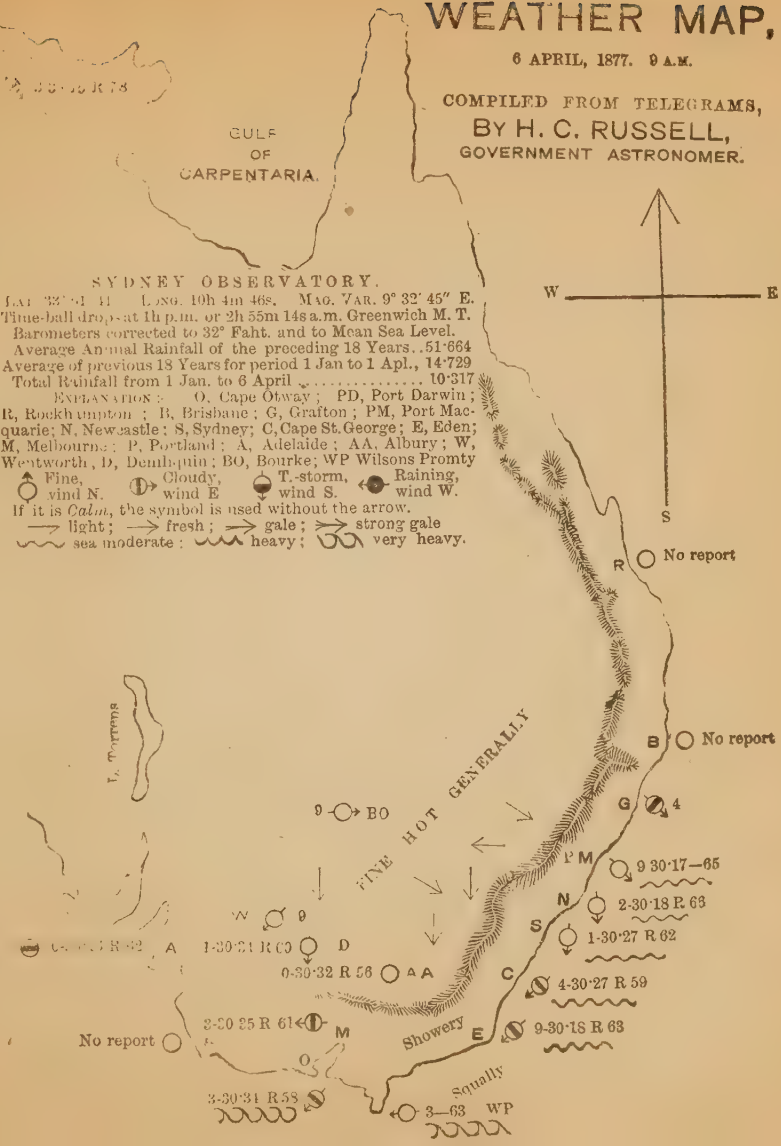
sea moderate; heavy; very heavy.

WEATHER MAP,

6 APRIL, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterf'ld	77	..	0
Grafton ..	92	50	0
Inverell ..	79	45	0
Bourke ..	78	52	0
Narrabri ..	69	54	0
Armidale .	62	53	0
Gunnedah	..	..	..
Tamworth	85	43	0
P. Macqurie	81	60	0
Murr'undi	79	..	0
Cassilis ..	79	53	0
Mus'brook	87	59	0
Dubbo ..	80	58	0
Maitland..	85	63	0
Newcastle	81	58	0·03
Orange ..	74	40	0
Bathurst..	..	..	..
MtVictoria	65	38	0
Forbes ..	70	47	..
SYDNEY ...	77	57	0
Wentw'th.	71	..	0
Young ..	67	43	0
Woll'gong	71	53	0
Euston ..	81	50	0
Goulburn	68	38	0
Wagga ..	90	46	0
Cape Geo	69	56	0
Queanb'an	71	50	0
Urana....	..	..	..
Deniliquin	68	48	0
Albury ..	71	37	0
Bodalla ..	74	42	0
Cooma ...	70	40	0
Eden	65	54	0·01
Gabo Isld.	73	45	0

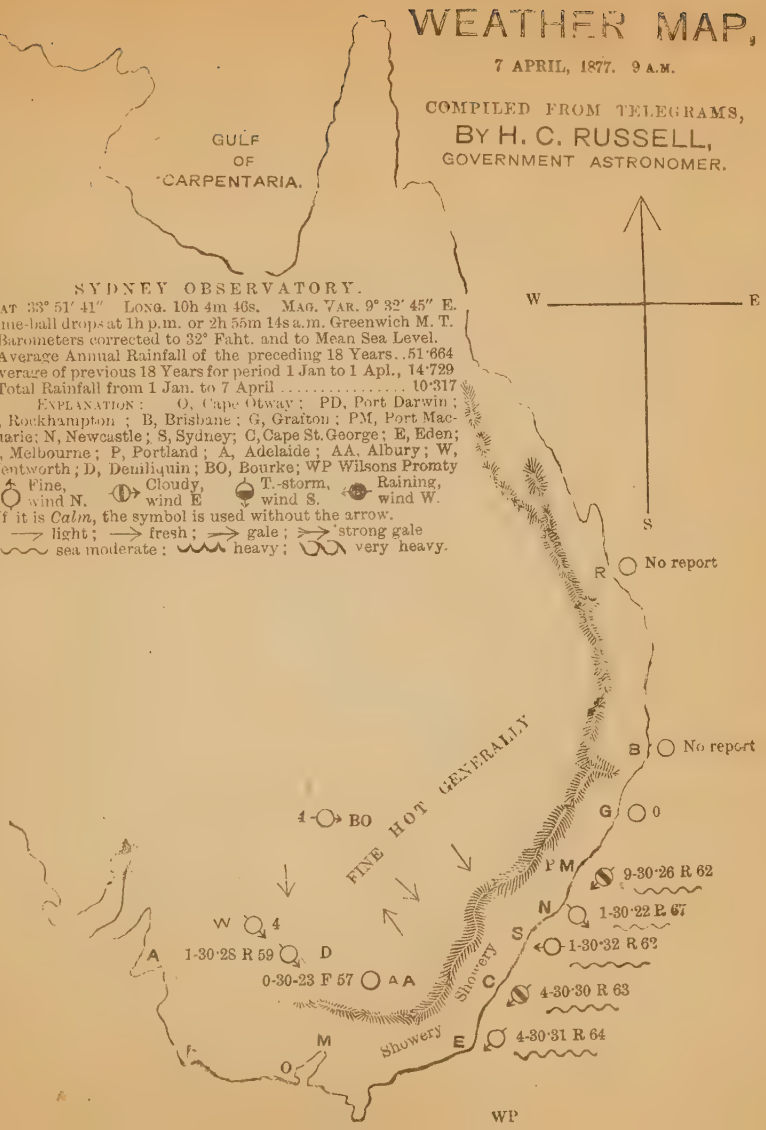


WEATHER MAP,

7 APRIL, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	75	..	0
Grafton ..	86	55	0
Inverell ..	73	48	0
Bourke ..	77	50	0
Narrabri ..	92	53	0
Armidale ..	70	51	0
Gunnedah	..	..	.
Tamworth	80	48	0
P. Macqrie	72	60	0
Murr'undi	79	..	0
Cassilis ..	73	45	0
Mus'brook	77	50	0
Dubbo ..	76	55	0
Maitland ..	75	53	0
Newcastle	83	51	0
Orange ..	66	43	0
Bathurst ..	77	38	..
Mt Victoria	61	42	0
Forbes ..	72	51	..
SYDNEY ..	67	58	0
Wentw'th.	76	..	0
Young ..	71	45	0
Woll'gong	66	55	0
Euston ..	75	52	0
Goulburn	72	53	0
Wagga ..	75	47	0
Cape Geo	65	52	0
Queanb'an	75	44	0
Urana.....	..	..	..
Deniliquin	72	49	0
Albury ..	73	41	0
Bodalla ..	77	47	0
Cooma ..	77	36	0
Eden	73	58	0
Gabo Isld.	65	54	0·04

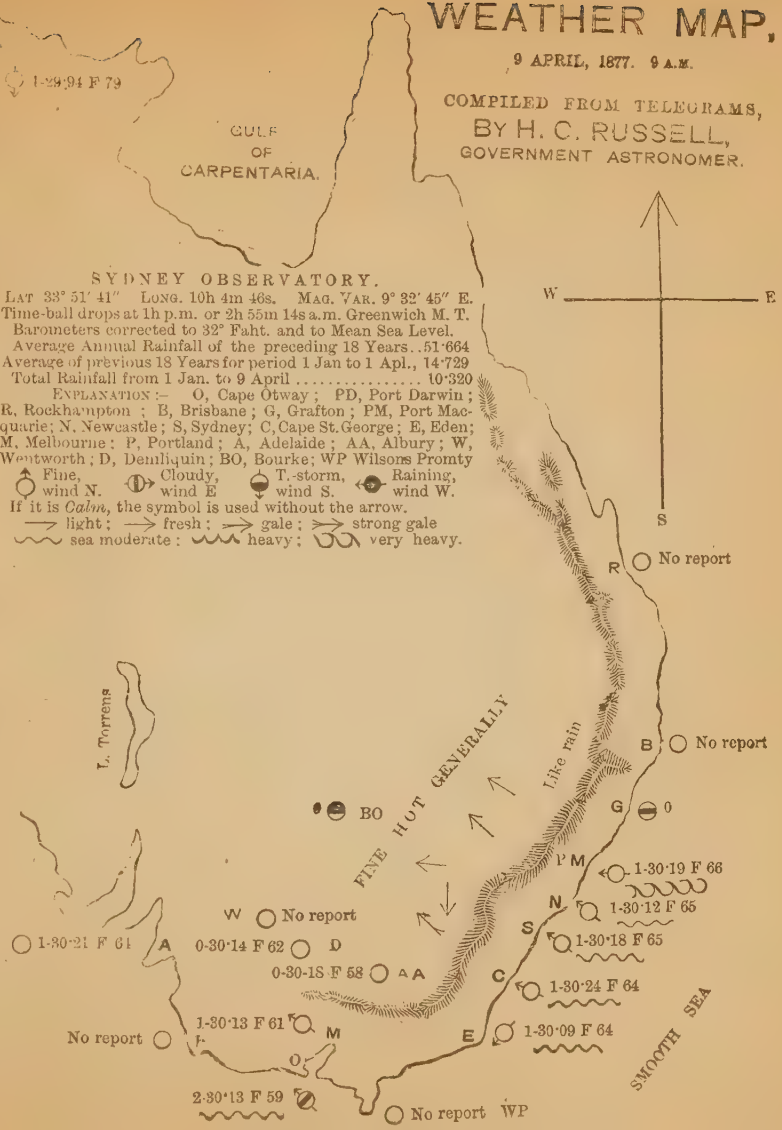


WEATHER MAP,

9 APRIL, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfield	73	..	0
Grafton ...	80	60	0
Inverell ..	78	49	0
Bourke ..	93	72	0
Narrabri ..	92	55	0
Armidale .	71	54	0
Gunnedah	..	..	..
Tamworth	82	49	0
P. Macqrie	72	57	0·03
Murr'undi	78	..	0
Cassilis ..	77	46	0
Mus'brook	81	60	0
Dubbo ..	79	55	0
Maitland..	72	55	0
Newcastle	78	57	0
Orange ..	75	50	0
Bathurst..	..	..	..
Mt Victoria	72	42	0
Forbes ..	78	55	..
SYDNEY ..	73	60	0
Wentw'th.	..	..	.
Young ..	78	48	0
Woll'gong	76	55	0
Euston ..	..	..	..
Goulburn	80	42	0
Wagga ..	82	66	0
Cape Geo	69	59	0
Queanb'an	79	47	0
Urana....	..	..	..
Deniliquin	84	47	0
Albury ..	85	42	0
Bodalla ..	77	49	0
Cooma ..	83	33	0
Eden	72	58	0
Gabo Isld.	69	59	0



SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 32′ 45″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664
Average of previous 18 Years for period 1 Jan to 1 Apl., 14·729
Total Rainfall from 1 Jan. to 9 April ..... 10·320

EXPLANATION:— O, Cape Otway; PD, Port Darwin; R, Rockhampton; B, Brisbane; G, Grafton; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George; E, Eden; M, Melbourne; P, Portland; A, Adelaide; AA, Albury; W, Wentworth; D, Deniliquin; BO, Bourke; WP Wilsons Promty

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale

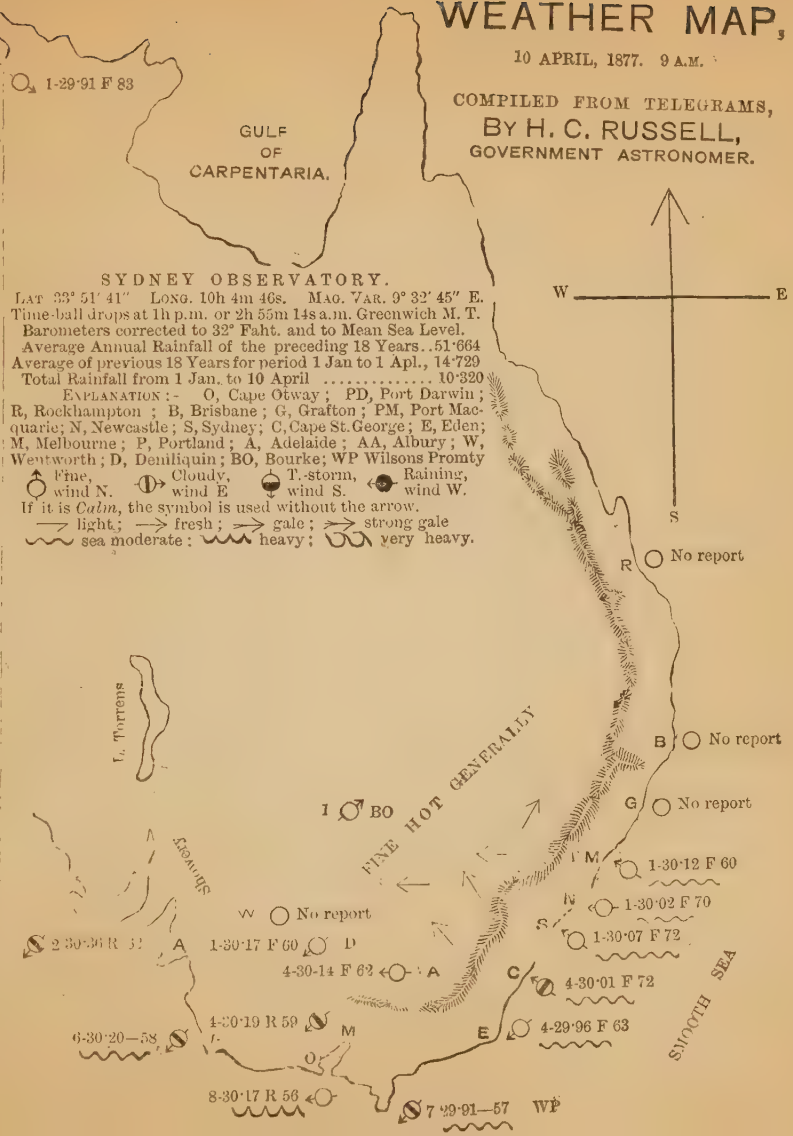
sea moderate; heavy; very heavy.

WEATHER MAP,

10 APRIL, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	75	54	0
Grafton ..	..	..	..
Inverell ..	79	49	0
Bourke ..	95	57	0
Narrabri ..	87	58	0
Armidale .	73	51	0
Gunnedah	..	..	.
Tamworth	84	48	0
P. Macqrie	76	58	0
Murr'undi	80	..	0
Cassilis ..	79	53	0
Mus'brook	86	53	0
Dubbo ..	81	51	0
Maitland..	..	..	..
Newcastle	78	51	0
Orange ..	73	51	0
Bathurst..	..	..	..
Mt Victoria	72	55	0
Forbes ..	80	56	0
SYDNEY ..	75	63	0
Wentw'th.	..	..	..
Young ..	80	49	0
Woll'gong	69	61	0
Euston ...	..	..	..
Goulburn	82	53	0
Wagga ..	83	52	0
Cape Geo	74	54	0
Queanb'an	84	48	0
Urana....	..	..	..
Deniliquin	82	52	0
Albury ..	88	45	0
Bodalla ..	85	65	0
Cooma ..	85	39	0
Eden	72	55	0
Gabo Isld.	69	58	0

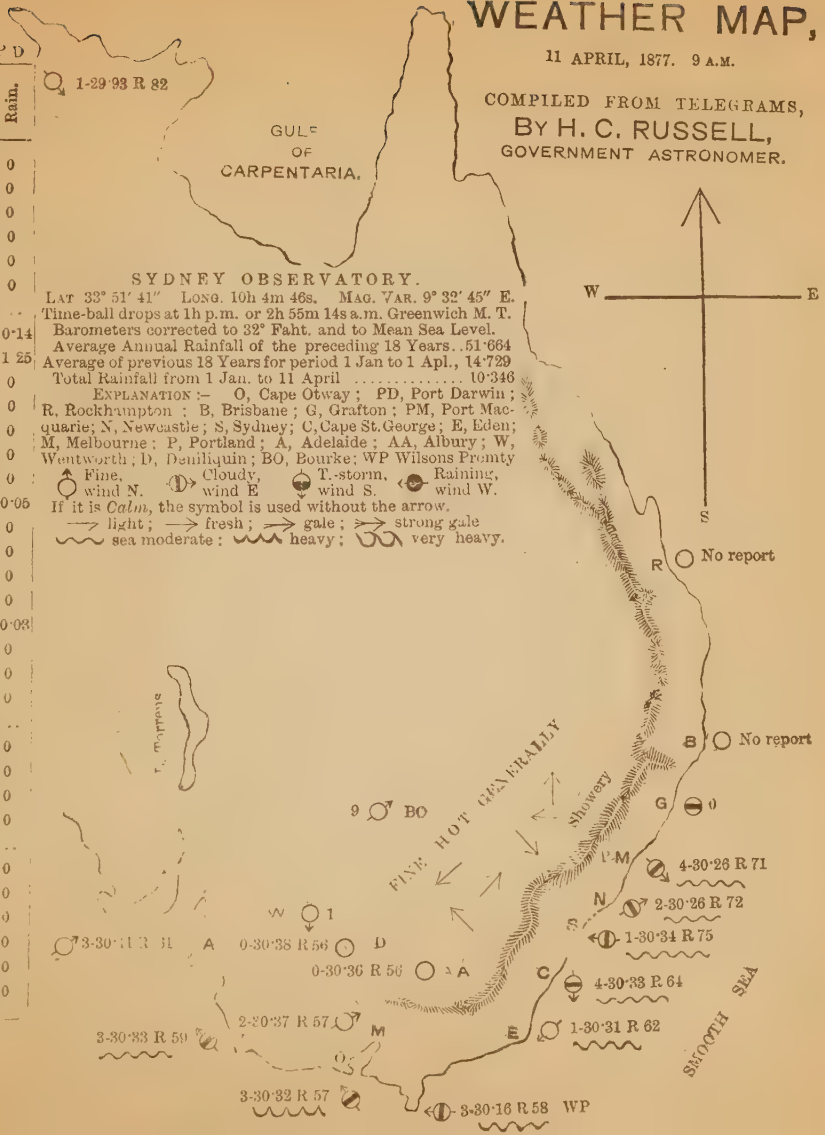


WEATHER MAP,

11 APRIL, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	75	47	0
Grafton ..	..	53	0
Inverell ..	77	47	0
Bourke ..	91	56	0
Narrabri ..	89	63	0
Armidale .	76	53	0
Gunnedah	..	..	..
Tamworth	84	49	0·14
P. Macqrie	76	63	1 25
Murr'umdi	79	..	0
Cassilis ..	82	51	0
Mus'brook	89	61	0
Dubbo ..	86	57	0
Maitland..	83	67	0
Newcastle	90	65	0·05
Orange ..	73	48	0
Bathurst..	88	39	0
Mt Victoria	72	49	0
Forbes ..	75	57	0
SYDNEY ..	84	62	0·03
Wentw'th.	88	..	0
Young ..	78	47	0
Woll'gong	70	60	0
Euston ..	..	..	..
Goulburn	78	52	0
Wagga ..	83	45	0
Cape Geo	83	62	0
Queanb'an	82	48	0
Urana....	..	..	..
Deniliquin	74	44	0
Albury ..	77	36	0
Bodalla ..	85	55	0
Cooma ..	82	33	0
Eden	71	54	0
Gabo Isld.	65	56	0



SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 32′ 45″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664
Average of previous 18 Years for period 1 Jan to 1 Apl., 14·729
Total Rainfall from 1 Jan. to 11 April ..... 10·346

EXPLANATION :— O, Cape Otway ; PD, Port Darwin ; R, Rockhampton ; B, Brisbane ; G, Grafton ; PM, Port Macquarie; N, Newcastle ; S, Sydney; C, Cape St. George ; E, Eden; M, Melbourne ; P, Portland ; A, Adelaide ; AA, Albury ; W, Wentworth ; D, Deniliquin ; BO, Bourke; WP Wilsons Promty

Fine, wind N. Cloudy, wind E T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

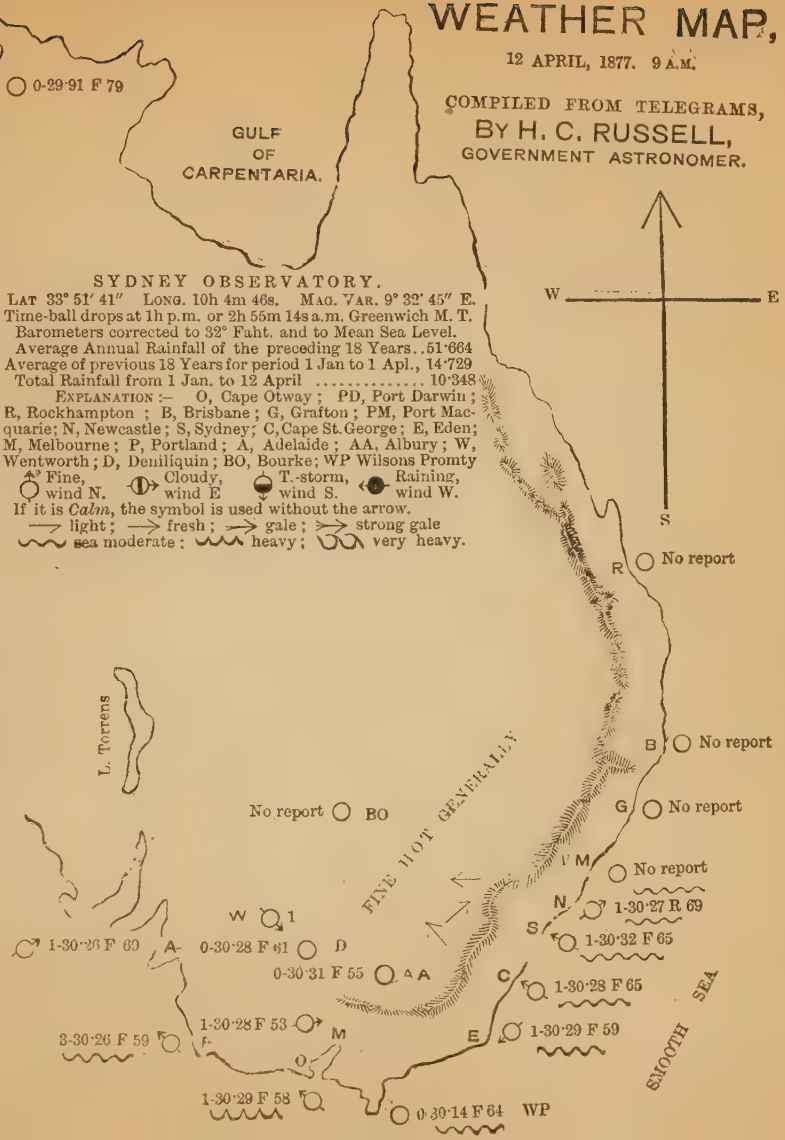
light ; fresh ; gale ; strong gale
sea moderate : heavy ; very heavy.

WEATHER MAP,

12 APRIL, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
			P D
Tenterfi'ld	75	47	0
Grafton ..			Line interrupted.
Inverell ..			
Bourke ..			
Narrabri ..			
Armidale .	..	..	
Gunnedah			
Tamworth			
P. Macqrie			
Murr'undi			
Cassilis ..	78	61	0
Mus'brook	..	..	0
Dubbo ..	79	55	0
Maitland..	75	55	0
Newcastle	82	41	0
Orange ..	70	46	0
Bathurst..	81	41	0
MtVictoria	67	45	0
Forbes ..	74	51	0
SYDNEY ..	72	60	0
Wentw'th.	81	..	0
Young ..	75	42	0
Wol'gong	74	62	0
Euston ..	..	..	..
Goulburn	80	52	0
Wagga ..	83	44	0
Cape Geo	68	50	0
Queanb'an	76	47	0
Urana....	..	..	..
Deniliquin	76	42	0
Albury ..	79	38	0
Bodalla ..	74	40	0
Cooma ..	76	33	0
Eden	70	55	0
Gabo Isld.	64	56	0



SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 32′ 45″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664
Average of previous 18 Years for period 1 Jan to 1 Apl., 14·729
Total Rainfall from 1 Jan. to 12 April ..... 10·348

EXPLANATION :— O, Cape Otway ; PD, Port Darwin ; R, Rockhampton ; B, Brisbane ; G, Grafton ; PM, Port Macquarie; N, Newcastle ; S, Sydney; C, Cape St. George ; E, Eden; M, Melbourne ; P, Portland ; A, Adelaide ; AA, Albury ; W, Wentworth ; D, Deniliquin ; BO, Bourke; WP Wilsons Promty

Fine, wind N. Cloudy, wind E T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light ; fresh ; gale ; strong gale

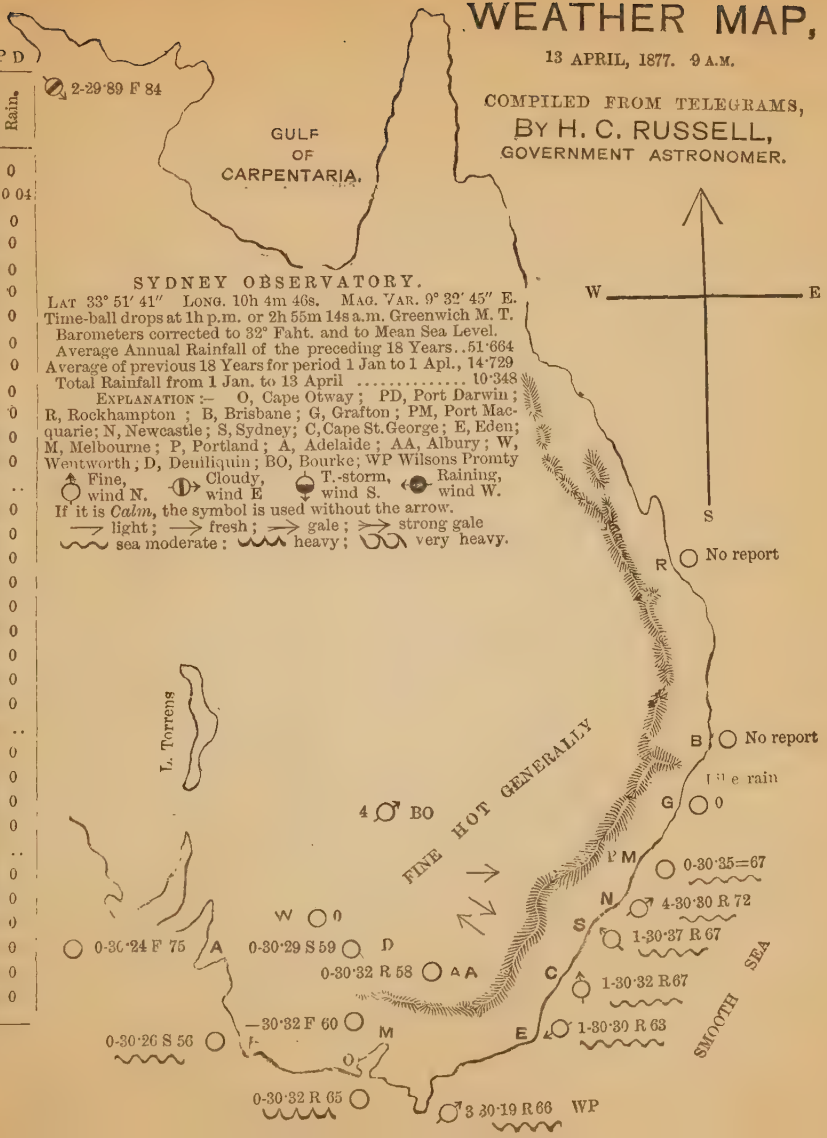
sea moderate ; heavy ; very heavy.

WEATHER MAP,

13 APRIL, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	75	47	0
Grafton ..	80	62	0 04
Inverell ..	81	57	0
Bourke ..	91	62	0
Narrabri..	96	58	0
Armidale.	71	57	0
Gunnedah	92	57	0
Tamworth	83	55	0
P. Macqrie	85	59	0
Murr'undi	79	..	0
Cassilis ..	81	51	0
Mus'brook	74	50	0
Dubbo ..	80	59	0
Maitland..	..	..	..
Newcastle	73	66	0
Orange ..	71	49	0
Bathurst..	83	45	0
Mt Victoria	74	49	0
Forbes ..	78	54	0
SYDNEY ..	74	62	0
Wentw'th.	87	..	0
Young ..	79	48	0
Woll'gong	74	60	0
Euston ..	88	45	..
Goulburn	85	42	0
Wagga ..	83	44	0
Cape Geo.	72	62	0
Queanb'an	78	57	0
Urana....	..	..	..
Deniliquin	83	48	0
Albury ..	82	39	0
Bodalla ..	80	55	0
Cooma ..	79	37	0
Eden	70	53	0
Gabo Isld.	68	58	0



SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 32′ 45″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664
Average of previous 18 Years for period 1 Jan to 1 Apl., 14·729
Total Rainfall from 1 Jan. to 13 April ..... 10·348

EXPLANATION :— O, Cape Otway ; PD, Port Darwin ; R, Rockhampton ; B, Brisbane ; G, Grafton ; PM, Port Macquarie; N, Newcastle ; S, Sydney; C, Cape St. George ; E, Eden; M, Melbourne ; P, Portland ; A, Adelaide ; AA, Albury ; W, Wentworth ; D, Deniliquin ; BO, Bourke; WP Wilsons Promty

Fine, wind N. Cloudy, wind E T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

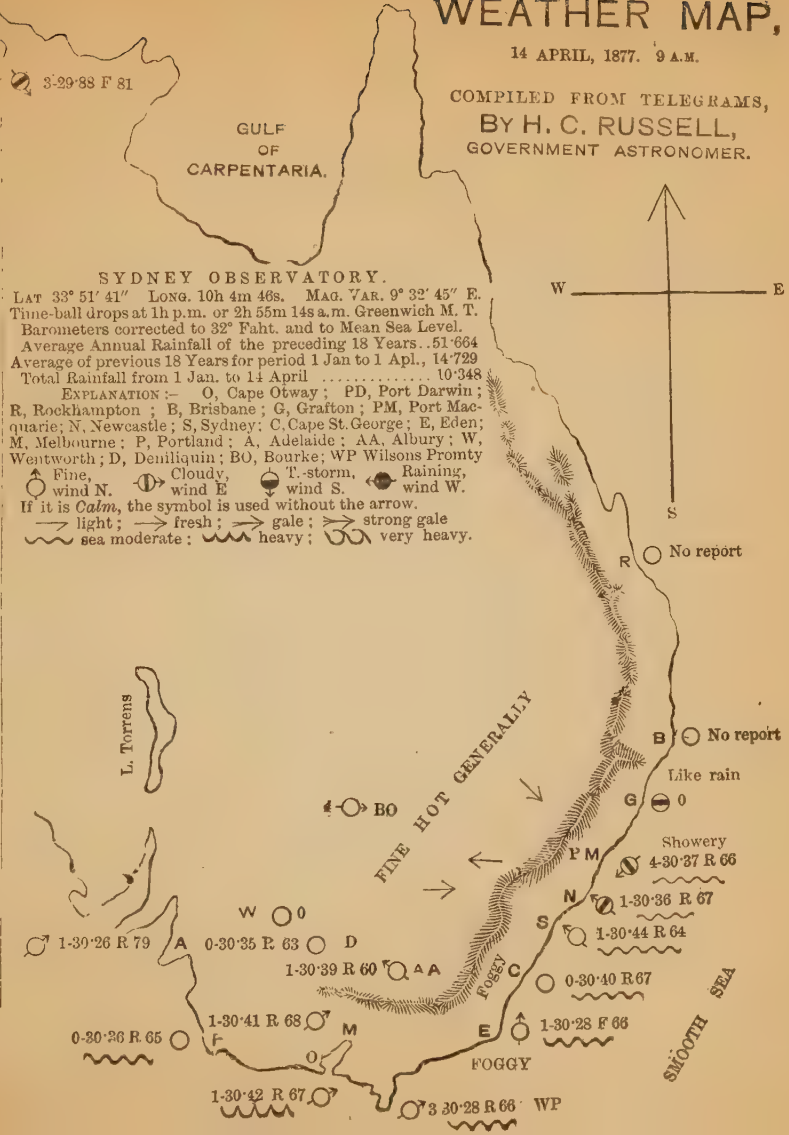
light ; fresh ; gale ; strong gale
sea moderate : heavy ; very heavy.

WEATHER MAP,

14 APRIL, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	68	50	0
Grafton ..	84	43	0
Inverell ..	80	48	0
Bourke ..	90	61	0
Narrabri ..	87	57	0
Armidale ..	71	53	0
Gunnedah	91	54	..
Tamworth	85	49	0
P. Macqrie	76	60	0
Murr'umdi	79	..	0
Cassilis ..	80	52	0
Mus'brook	81	50	0
Dubbo ..	82	61	0
Maitland ..	76	54	0
Newcastle	77	57	0
Orange ..	74	54	0
Bathurst ..	87	48	0
MtVictoria	70	47	0
Forbes ..	77	56	0
SYDNEY ..	75	60	0
Wentw'th.	91	..	0
Young ..	83	57	0
Woll'gong	73	51	0
Euston ..	98	88	..
Goulburn	85	48	0
Wagga ..	83	51	0
Cape Geo.	72	63	0
Queanb'an	81	53	0
Urana	..	..	..
Deniliquin	90	50	0
Albury ..	88	43	0
Bodalla ..	82	51	0
Cooma ..	81	44	0
Eden	71	61	0
Gabo Isld.	70	60	0

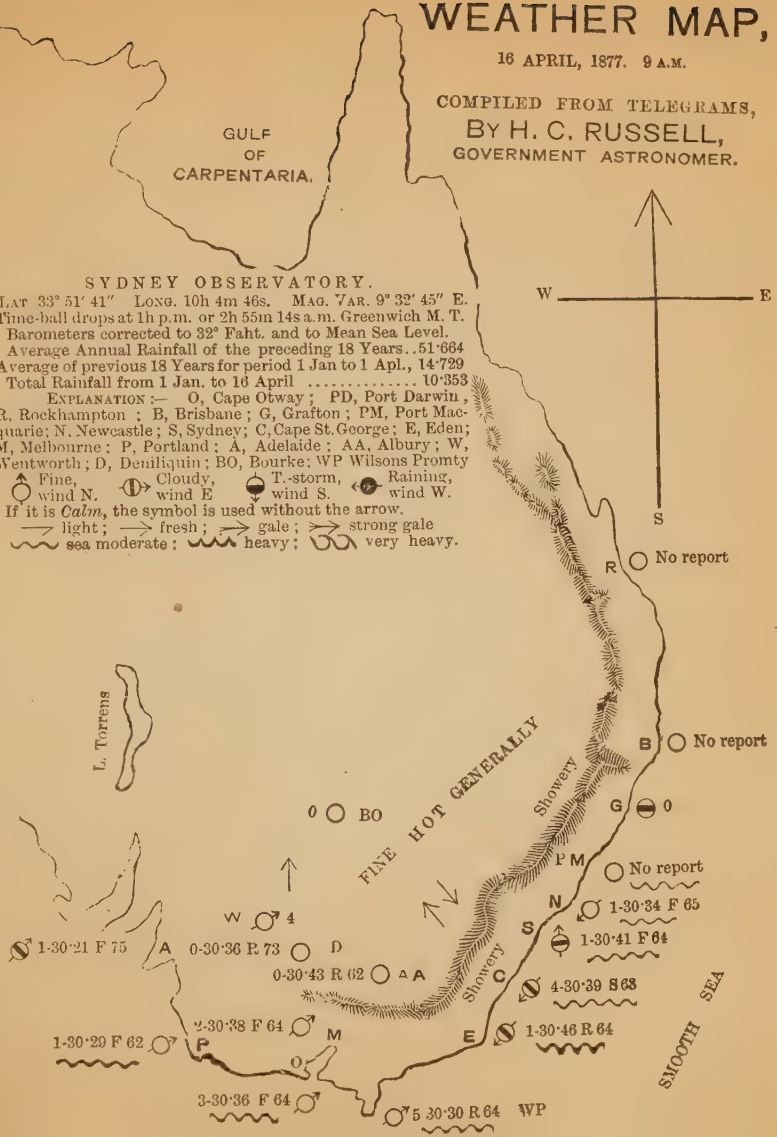


WEATHER MAP,

16 APRIL, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain. (P D)
Tenterfi'ld	64	53	0·02
Grafton ..	90	48	0·84
Inverell ..	..	..	..
Bourke ..	87	60	0
Narrabri ..	..	..	..
Armidale .	67	52	0
Gunnedah	..	.	..
Tamworth	..	..	..
P. Macqrie	..	..	..
Murr'undi	..	..	..
Cassilis ..	83	52	..
Mus'brook	..	..	..
Dubbo ..	82	59	0
Maitland..	..	..	..
Newcastle	78	58	0·03
Orange ..	70	49	0
Bathurst..	82	41	0
MtVictoria	71	48	0
Forbes ..	79	57	0
SYDNEY ..	75	60	0
Wentw'th.	95	..	0
Young ..	82	49	0
Woll'gong	71	55	0
Euston ..	96	58	0
Goulburn	79	48	0
Wagga ..	86	52	0
Cape Geo.	73	62	0·15
Queanb'an	82	49	0
Urana....	..	..	..
Deniliquin	91	56	0
Albury ..	89	47	0
Bodalla ..	..	..	..
Cooma ..	81	36	0
Eden	72	62	0
Gabo Isld.	77	63	0

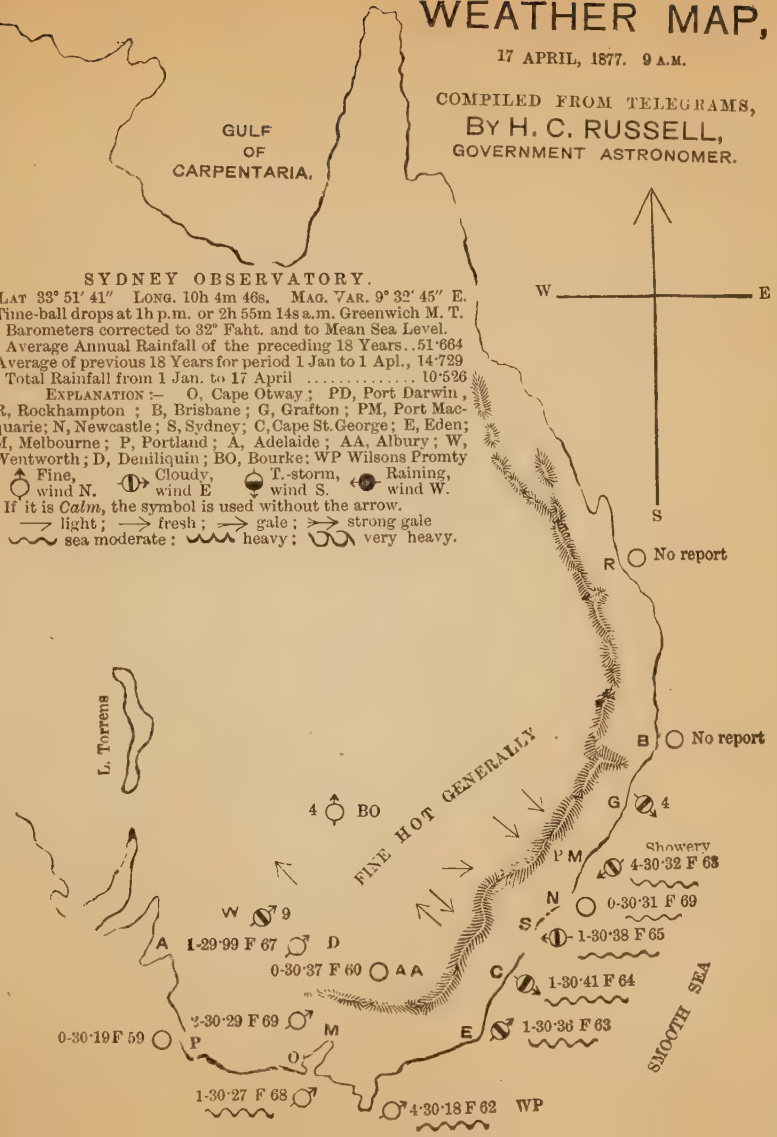


WEATHER MAP,

17 APRIL, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	65	53	0·02
Grafton ..	85	55	0·16
Inverell ..	77	45	0
Bourke ..	89	59	0
Narrabri ..	90	58	0
Armidale.	68	50	0·10
Gunnedah	..	.	..
Tamworth	83	48	0
P. Macqrie	74	6	0·03
Murr'undi	..	..	..
Cassilis ..	77	55	0
Mus'brook	79	52	0·02
Dubbo ..	80	59	0
Maitland..	76	54	0
Newcastle	79	51	0·40
Orange ..	70	51	0
Bathurst..	78	46	0
MtVictoria	69	50	0·28
Forbes ..	78	56	0
SYDNEY ..	75	61	0·17
Wentw'th.	96	..	0
Young ..	78	63	0
Woll'gong	71	58	0
Euston ..	91	63	0
Goulburn	79	49	0
Wagga ..	83	57	0·06
Cape Geo.	70	63	0·10
Queanb'an	74	48	0
Urana....	..	..	..
Deniliquin	86	56	0
Albury ..	86	44	0
Bodalla ..	72	52	0·53
Cooma ..	76	47	0
Eden	72	59	0
Gabo Isld.	67	59	0

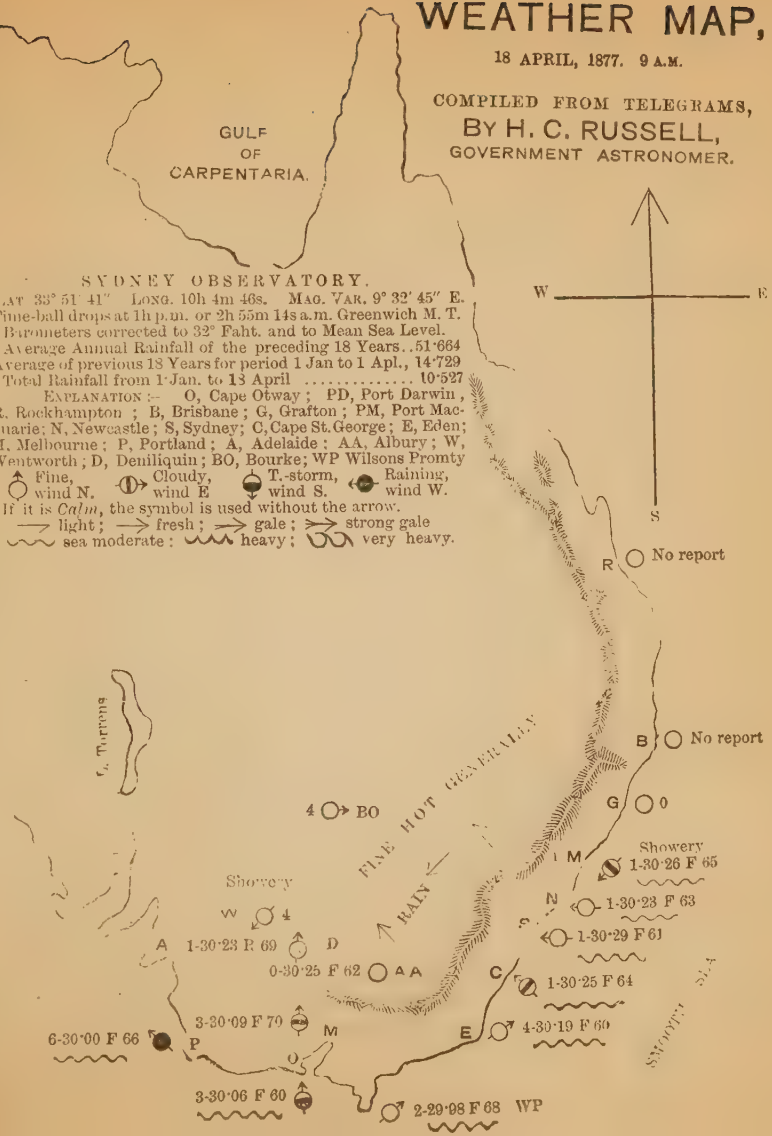


WEATHER MAP,

18 APRIL, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	P D Rain.
Tenterfi'ld	65	45	0
Grafton ..	72	60	0·12
Inverell ..	75	45	0
Bourke ..	86	60	0
Narrabri ..	92	58	0
Armidale .	72	55	0
Gunnedah	87	..	0
Tamworth	78	46	0
P. Macqrie	72	59	0 03
Murr'undi	..	..	
Cassilis ..	77	44	0
Mus'brook	78	46	0
Dubbo ..	78	59	0
Maitland..	72	48	0
Newcastle	73	55	0
Orange ..	69	43	0
Bathurst..	80	3.	0
MtVictoria	64	41	0
Forbes ..	80	59	0
SYDNEY ..	70	53	0
Wentw'th.	87	..	0·08
Young ..	73	50	0
Woll'gong	73	50	0
Euston .	.		.
Goulburn	77	43	0
Wagga ..	83	55	0
Cape Geo	71	58	0
Queanb'an	76	48	0
Urana....	..	..	..
Deniliquin	85	64	0
Albury ..	84	48	0
Bodalla ..	78	49	0
Cooma ..	82	36	0
Eden	72	58	0
Gabo Isld.	67	61	0

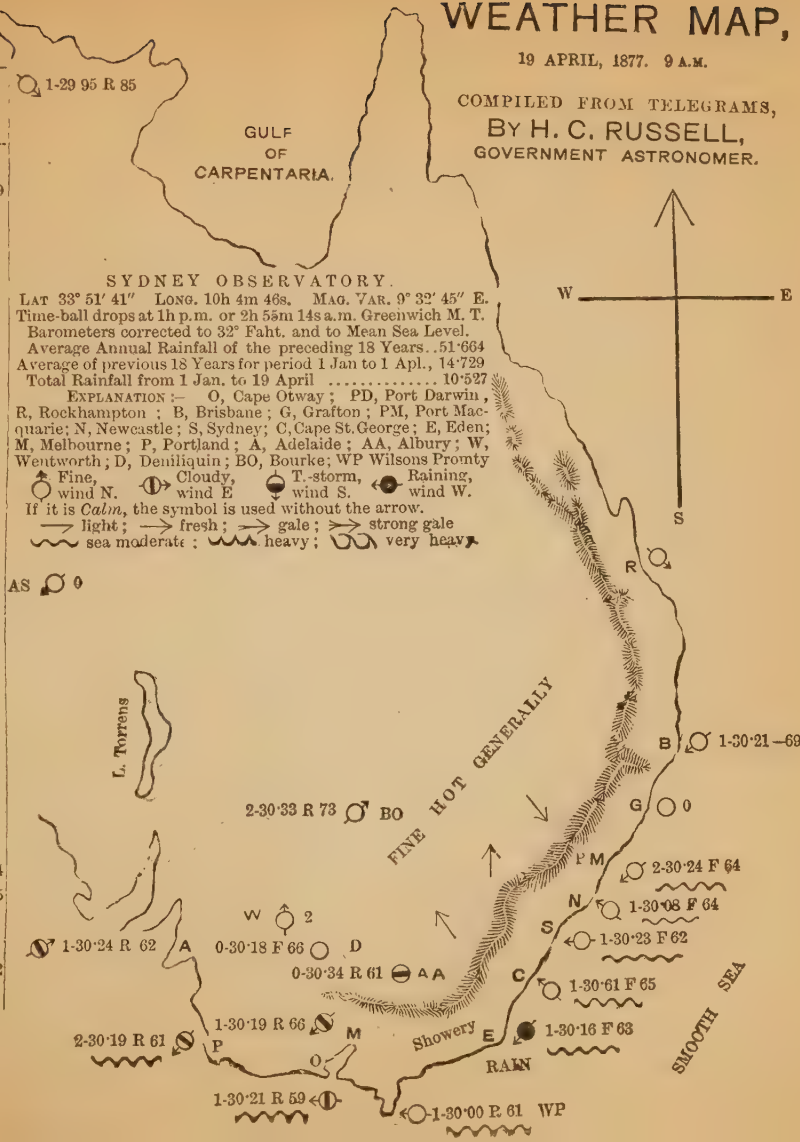


WEATHER MAP,

19 APRIL, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	0	53	0
Grafton ..	83	52	0·09
Inverell ..	76	44	0
Bourke ..	88	59	0
Narrabri ..	85	53	0
Armidale .	68	48	0
Gunnedah	..	..	..
Tamworth	78	44	0
P. Macqrie	70	57	0
Murr'undi	..	..	..
Cassilis ..	75	43	0
Mus'brook	78	46	0
Dubbo ..	79	59	0
Maitland..	70	58	0
Newcastle	75	57	0
Orange ..	69	44	0
Bathurst..	77	37	0
MtVictoria	65	47	0
Forbes ..	75	53	0
SYDNEY ..	71	56	0
Wentw'th.	81	..	0
Young ..	78	50	0
Woll'gong	71	58	0
Euston ..	96	53	..
Goulburn	78	40	0
Wagga ..	83	55	0
Cape Geo.	70	59	0
Queanb'an	77	52	0
Urana....	..	..	..
Deniliquin	80	60	0·14
Albury ..	83	56	0·05
Bodalla ..	81	49	0
Cooma ..	78	44	0
Eden	70	61	0·02
Gabo Isld.	70	63	0

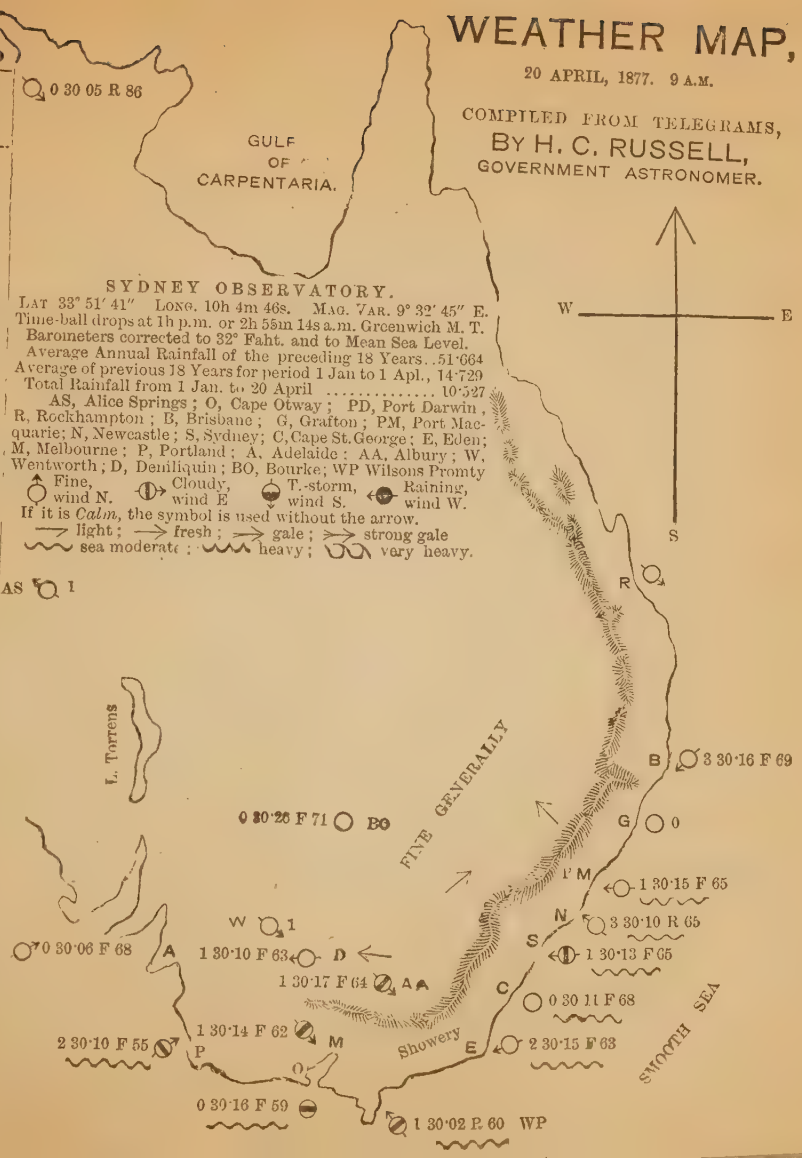


WEATHER MAP,

20 APRIL, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	..	50	0
Grafton ..	81	56	0
Inverell ..	73	44	0
Bourke ..	87	59	0
Narrabri ..	86	52	0
Armidale .	69	45	0
Gunnedah	86	48	0
Tamworth	75	45	0
P. Macqrie	74	57	0
Murr'undi	..	..	..
Cassilis ..	77	48	0
Mus'brook	81	47	0
Dubbo ..	80	8	0
Maitland..	75	50	0
Newcastle	77	41	0
Orange ..	71	49	0
Bathurst..	81	48	0
MtVictoria	69	52	0
Forbes ..	77	57	0
SYDNEY ..	74	61	0
Wentw'th.	85	..	0
Young ..	76	47	0
Woll'gong	76	66	0
Euston ..	81	57	0
Goulburn	80	53	0
Wagga ..	76	00	0
Cape Geo	76	54	0
Queanb'an	79	62	0
Urana....	..	..	..
Deniliquin	72	55	0
Albury ..	80	55	0·35
Bodalla ..	77	52	0
Cooma ..	72	50	0
Eden	71	50	0·01
Gabo Isld.	71	61	0

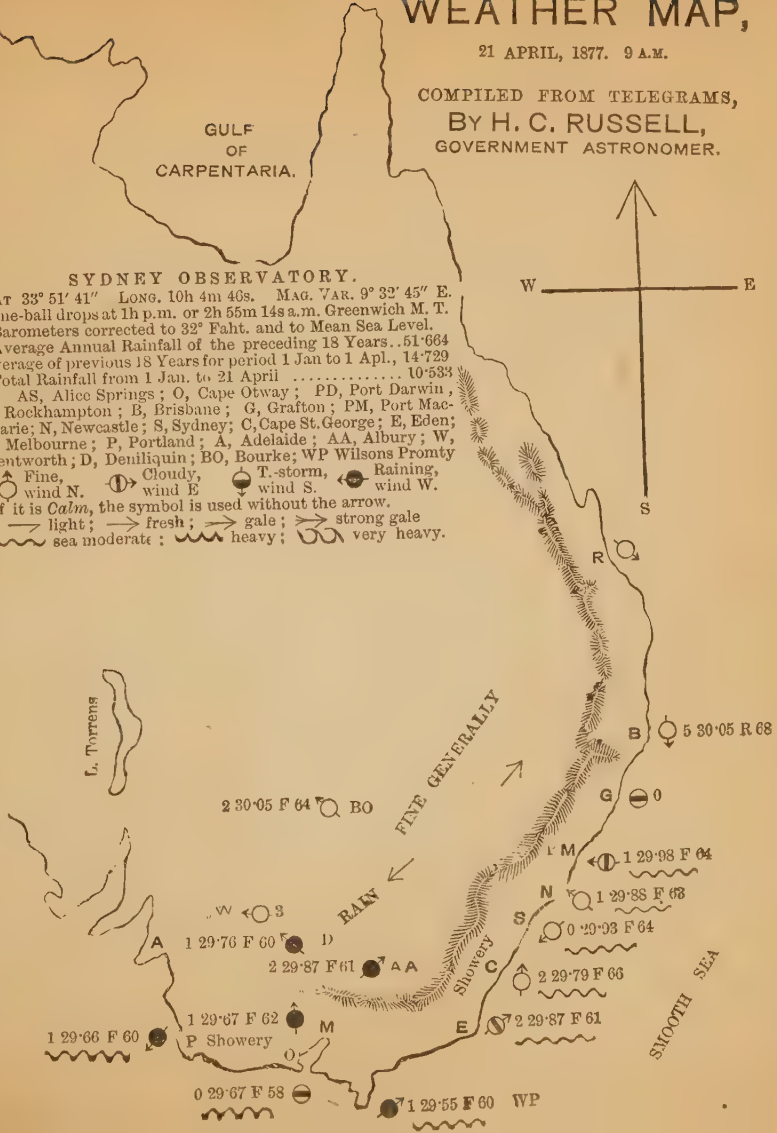


WEATHER MAP,

21 APRIL, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld ..		52	0
Grafton ..	81	59	0
Inverell ..	76	52	0
Bourke ..	99	64	0
Narrabri ..	85	67	0
Armidale .	68	43	0
Gunnedah	88	56	0
Tamworth	88	51	0
P. Macqrie	75	57	0
Murr'undi	..	..	..
Cassilis ..	80	54	0
Mus'brook	83	52	0
Dubbo ..	79	61	0
Maitland..	72	48	0
Newcastle	80	56	0
Orange ..	73	51	0
Bathurst..	..	.	..
MtVictoria	73	51	0
Forbes ..	78	59	0
SYDNEY ..	76	60	0·01
Wentw'th.	87	..	0·24
Young ..	73	50	0
Woll'gong	76	66	0
Euston ..	89	59	0·08
Goulburn	80	46	0
Wagga ..	81	60	0·35
Cape Geo	72	62	0
Queanb'an	75	52	0
Uranà.....	..	..	..
Deniliquin	84	60	0·03
Albury ..	80	57	0·52
Bodalla ..	73	54	0·53
Cooma ..	71	45	0·05
Eden	71	62	0·01
Gabo Isld.	69	62	0·05

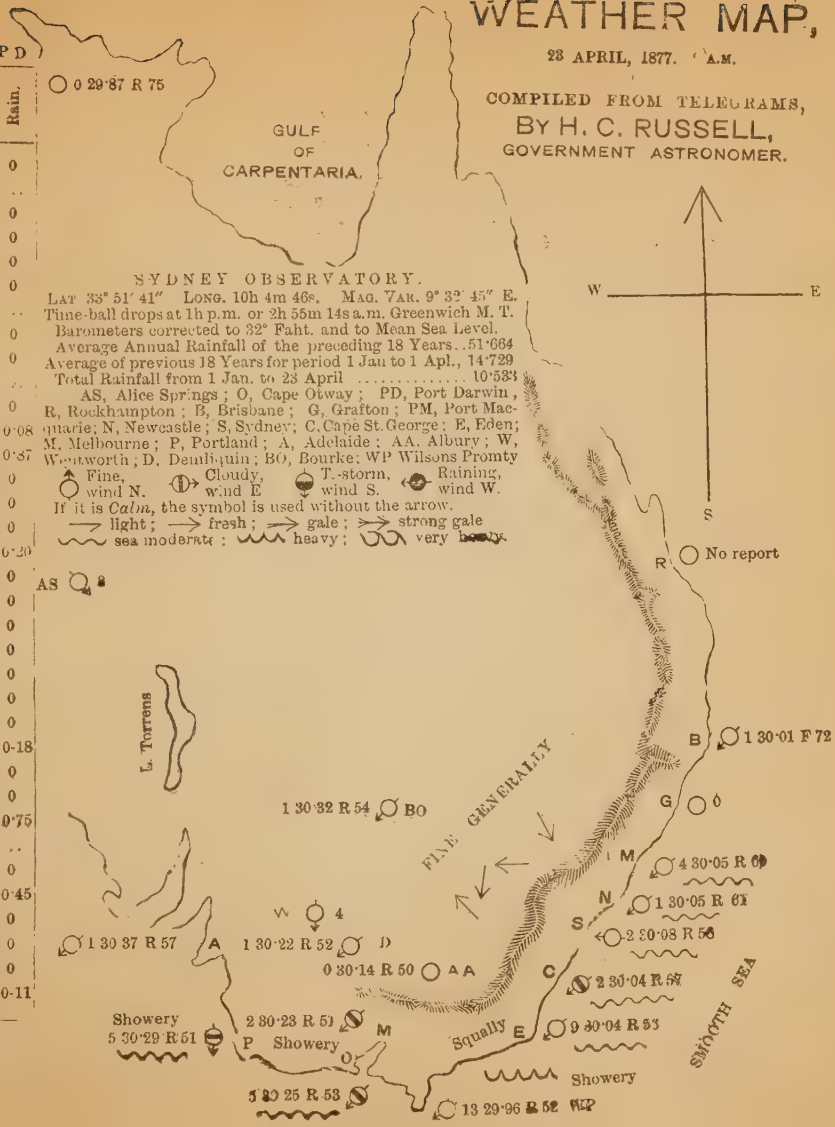


WEATHER MAP,

28 APRIL, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	P D Rain.
Tenterd'ld	..	40	0
Grafton ..	..	..	..
Inverell ..	77	39	0
Bourke ..	73	46	0
Narrabri ..	79	47	0
Armidale ..	59	41	0
Gunnedah	..	..	..
Tamworth	76	38	0
P. Macqrie	78	56	0
Murr'undi	..	..	..
Cassilis ..	69	38	0
Mus'brook	88	42	0·08
Dubbo ..	79	48	0·37
Maitland..	83	56	0
Newcastle	78	44	0
Orange ..	60	37	0
Bathurst..	72	31	0·20
MtVictoria	68	36	0
Forbes ..	65	43	0
SYDNEY ..	73	54	0
Wentw'th.	68	..	0
Young ..	64	39	0
Woll'gong	71	52	0
Euston ..	..	..	0
Goulburn	73	39	0·18
Wagga ..	81	43	0
Cape Geo	66	52	0
Queanb'an	66	39	0·75
Urana....	..	..	..
Deniliquin	73	44	0
Albury ..	69	37	0·45
Bodalla ..	76	39	0
Cooma ..	67	35	0
Eden	67	50	0
Gabo Isld.	61	49	0·11



SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 32′ 45″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664
Average of previous 18 Years for period 1 Jan to 1 Apl., 14·729
Total Rainfall from 1 Jan. to 28 April ..... 10·533

AS, Alice Springs; O, Cape Otway; PD, Port Darwin, R, Rockhampton; B, Brisbane; G, Grafton; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George; E, Eden; M, Melbourne; P, Portland; A, Adelaide; AA, Albury; W, Wentworth; D, Deniliquin; BO, Bourke; WP Wilsons Promty

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

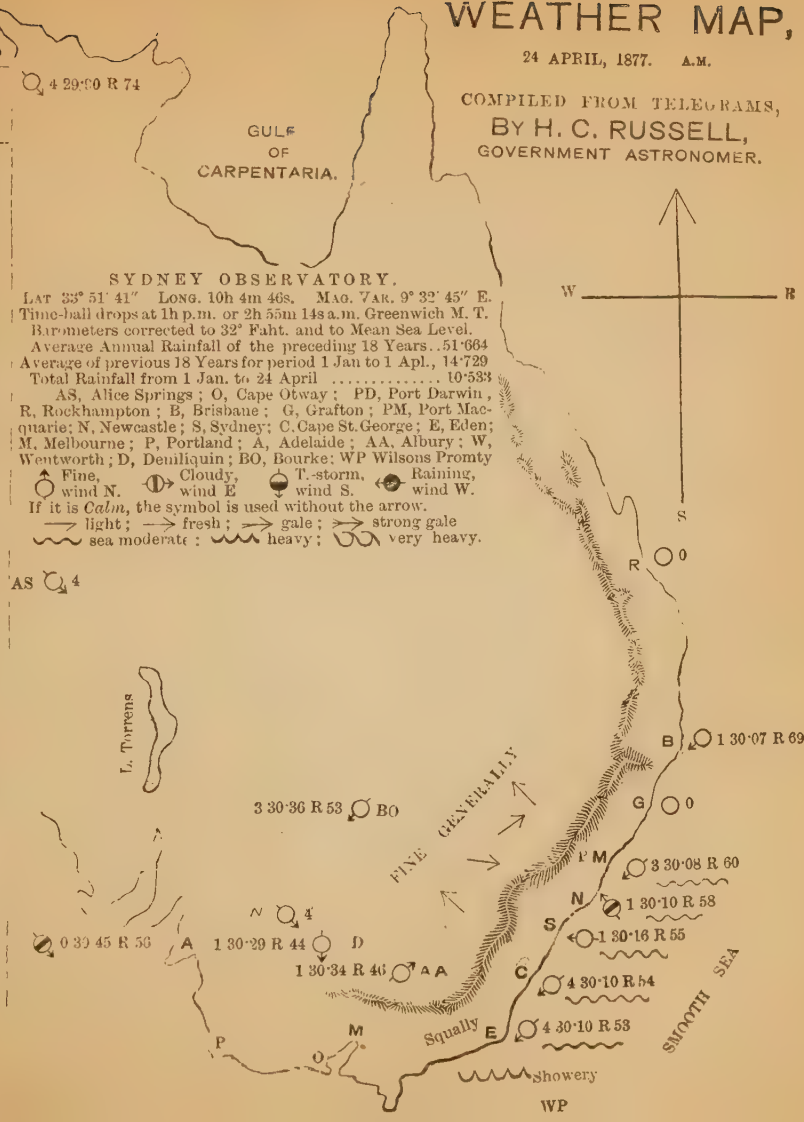
light; fresh; gale; strong gale
sea moderate; heavy; very heavy.

WEATHER MAP,

24 APRIL, 1877. A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	..	42	0
Grafton ..	86	55	0
Inverell ..	65	58	0
Bourke ..	71	44	0
Narrabri ..	78	41	0
Armidale .	63	26	0
Gunnedah	79	40	0
Tamworth	70	35	0
P. Macqrie	69	53	0
Murr'undi	65	25	0
Cassilis ..	65	35	0
Mus'brook	71	45	0
Dubbo ..	79	45	0
Maitland..	70	54	0
Newcastle	74	55	0
Orange ..	54	34	0
Bathurst..	66	28	0
MtVictoria	57	33	0
Forbes ..	65	42	0
SYDNEY ..	65	49	0
Wentw'th.	65	..	0
Young ..	..	..	..
Woll'gong	76	50	0
Euston ..	..	..	0
Goulburn	62	30	0
Wagga ..	80	39	0
Cape Geo	61	52	0
Queanb'an	63	35	0
Urana....	..	..	..
Deniliquin	63	38	0
Albury ..	67	31	0
Bodalla ..	68	31	0
Cooma ..	64	23	0
Eden	60	49	0
Gabo Isld.	57	49	0

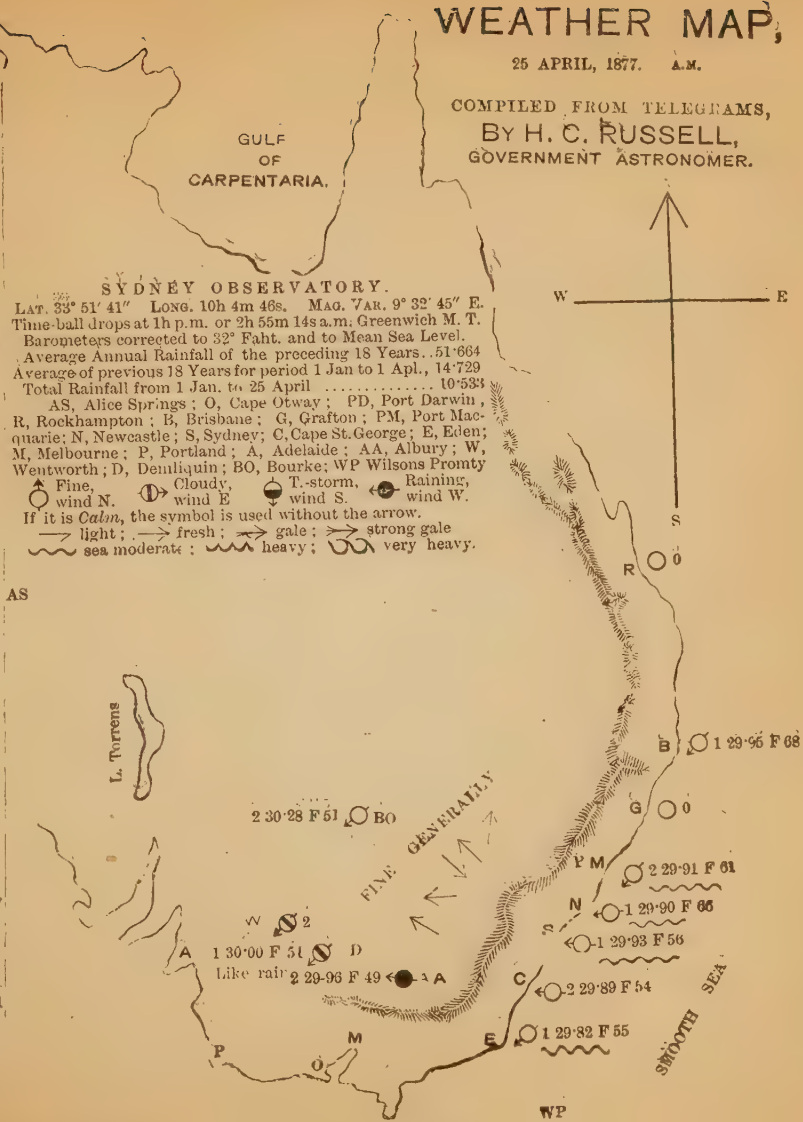


WEATHER MAP,

25 APRIL, 1877. A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	..	40	0
Grafton ..	86	54	0
Inverell ..	73	34	0
Bourke ..	67	43	0
Narrabri ..	87	40	0
Armidale .	66	33	0
Gunnedah	80	39	0
Tamworth	72	35	0
P. Macqrie	69	52	0
Murr'undi	68	58	0
Cassilis ..	67	35	0
Mus'brook	71	39	0
Dubbo ..	79	43	0
Maitland..	..	..	..
Newcastle	70	49	0
Orange ..	56	33	0
Bathurst..	68	28	0
MtVictoria	57	32	0
Forbes ..	67	41	0
SYDNEY ..	67	49	0
Wentw'th.	64	..	0
Young ..	60	34	0
Woll'gong	66	53	0
Euston ..	..	..	..
Goulburn	63	35	0
Wagga ..	69	41	0
Cape Geo	57	47	0
Queanb'an	62	37	0
Urana....	..	..	..
Deniliquin	62	41	0
Albury ..	66	43	0·07
Bodalla ..	75	32	0
Cooma ..	64	27	0
Eden	62	49	0
Gabo Isld.	54	48	0·11



SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 32′ 45″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664
Average of previous 18 Years for period 1 Jan to 1 Apl., 14·729
Total Rainfall from 1 Jan. to 25 April ..... 10·533

AS, Alice Springs; O, Cape Otway; PD, Port Darwin, R, Rockhampton; B, Brisbane; G, Grafton; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George; E, Eden; M, Melbourne; P, Portland; A, Adelaide; AA, Albury; W, Wentworth; D, Deniliquin; BO, Bourke; WP Wilsons Promty

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

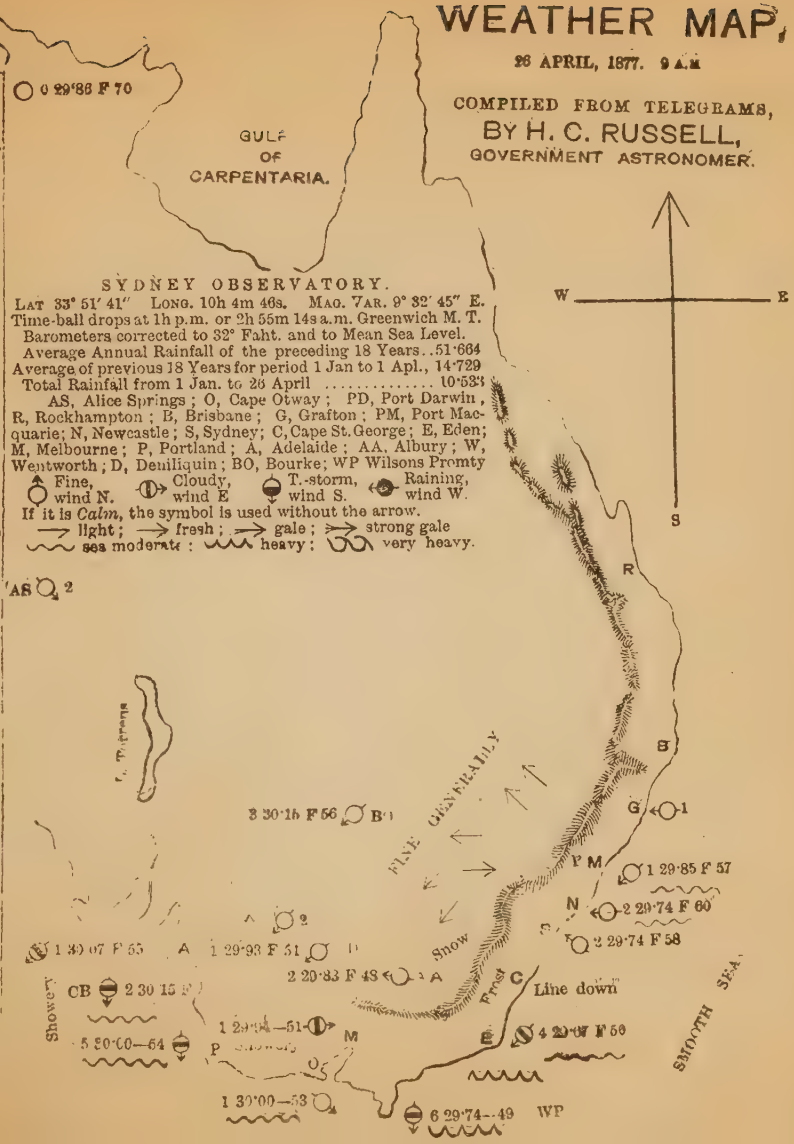
light; fresh; gale; strong gale
sea moderate; heavy; very heavy.

WEATHER MAP,

26 APRIL, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	..	40	0
Grafton ..	84	67	0
Inverell ..	66	32	0
Bourke ..	67	52	0
Narrabri ..	76	43	0
Armidale .	59	39	0
Gunnedah	76	38	0
Tamworth	57	39	0
P. Macqrie	69	53	0
Murr'undi	73	32	0
Cassilis ..	65	44	0
Mus'brook	69	44	0
Dubbo ..	78	44	0
Maitland ..	60	52	0
Newcastle	70	48	0
Orange ..	82	41	0·59
Bathurst ..	78	48	0
MtVictoria	52	33	0
Forbes ..	59	39	0
SYDNEY ..	58	53	0
Wentw'th.	67	..	0
Young ..	60	36	0·27
Woll'gong	..	..	..
Euston ..	..	..	..
Goulburn	54	43	0
Wagga ..	64	38	0·25
Cape Geo	..	..	..
Queanb'an	.	..	..
Urana	..	..	..
Deniliquin	63	42	0
Albury ..	62	38	0·22
Bodalla ..	72	31	0·58
Cooma ..	53	33	0·24
Eden	60	48	0
Gabo Isld.	57	48	0

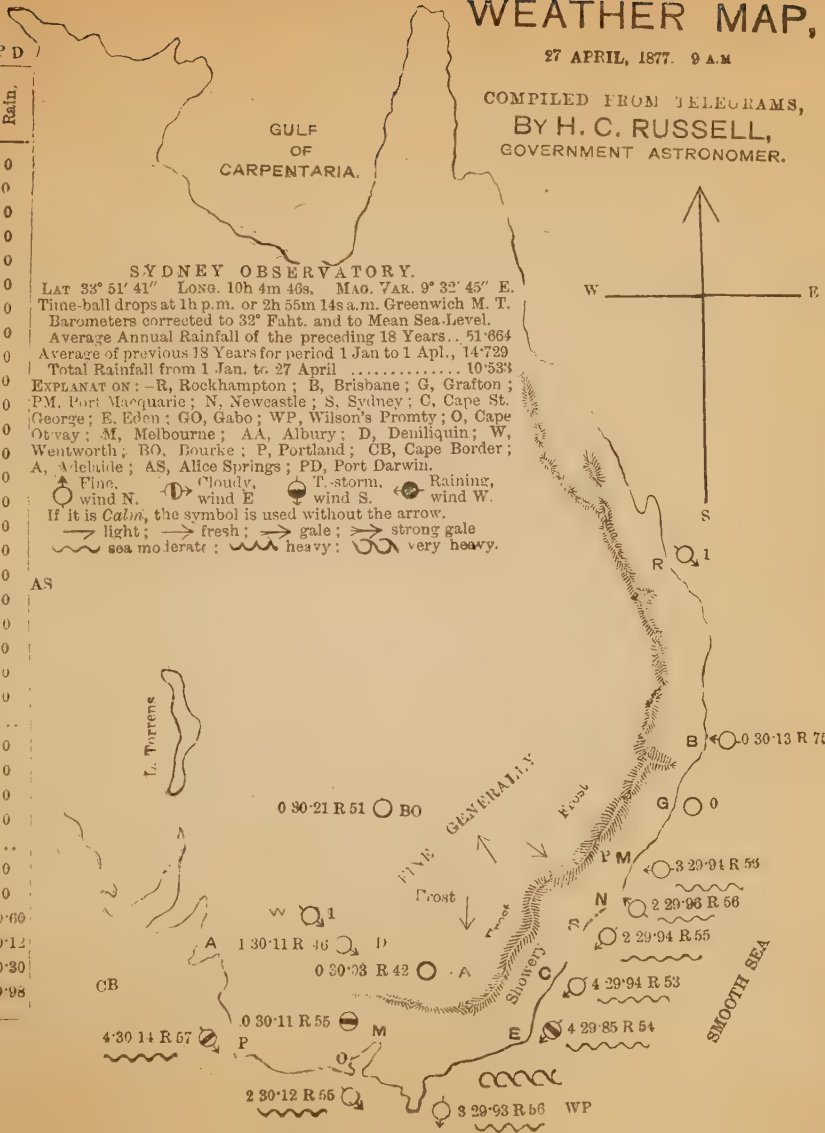


WEATHER MAP,

27 APRIL, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	..	40	0
Grafton ..	79	41	0
Inverell ..	67	3[illegible]	0
Bourke ..	69	49	0
Narrabri ..	68	36	0
Armidale .	58	33	0
Gunnedah	64	34	0
Tamworth	62	31	0
P. Macqrie	70	47	0
Murr'undi	73	33	0
Cassilis ..	59	3[illegible]	0
Mus'brook	68	40	0
Dubbo ..	68	30	0
Maitland ..	66	55	0
Newcastle	70	40	0
Orange ..	47	29	0
Bathurst ..	84	2[illegible]	0
Mt Victoria	47	34	0
Forbes ..	58	37	0
SYDNEY ..	64	50	0
Wentw'th.	63	..	0
Young ..	54	31	0
Woll'gong	71	50	0
Euston ..	..	..	..
Goulburn	55	30	0
Wagga ..	63	36	0
Cape Geo	59	46	0
Queanb'an	56	31	0
Urana	..	..	..
Deniliquin	63	35	0
Albury ..	63	31	0
Bodalla ..	64	42	0·60
Cooma ..	53	28	0·12
Eden	61	48	0·30
Gabo Isld.	58	47	0·98

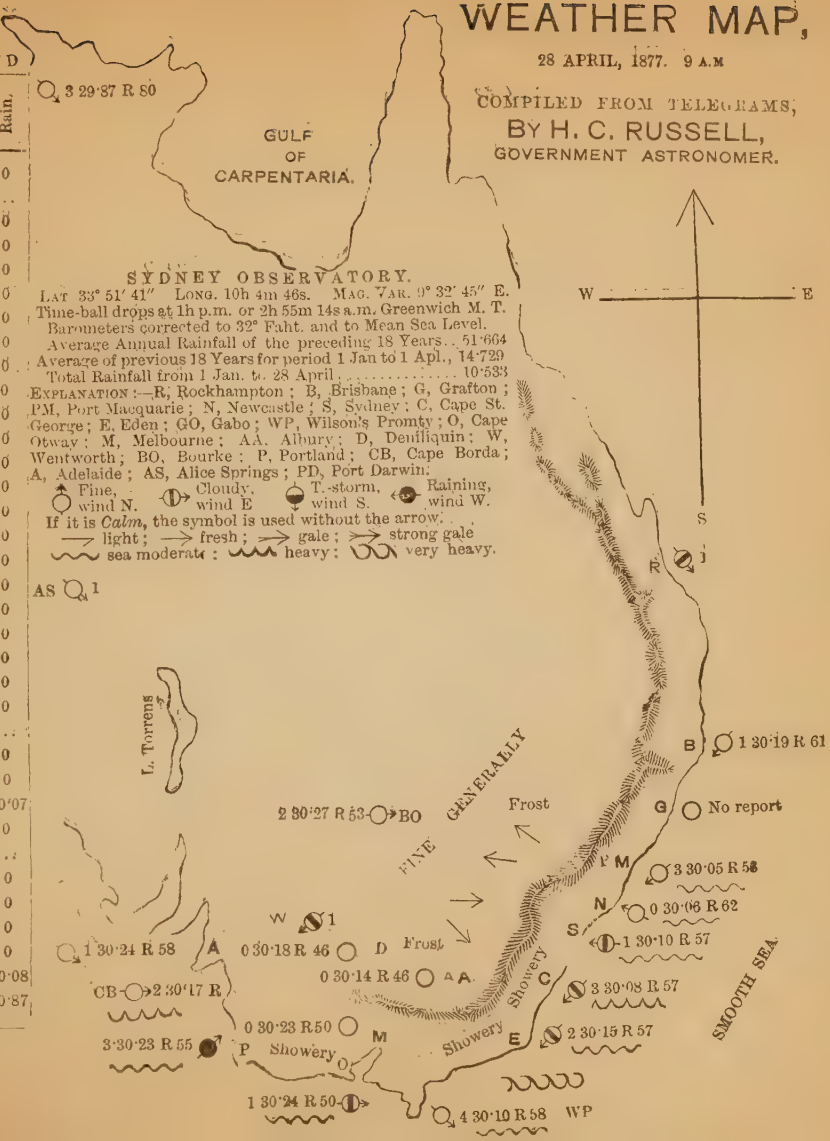


WEATHER MAP,

28 APRIL, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	..	30	0
Grafton ..	..	..	..
Inverell ..	62	28	0
Bourke ..	68	49	0
Narrabri ..	79	36	0
Armidale .	55	31	0
Gunnedah	73	33	0
Tamworth	65	48	0
P. Macqrie	69	46	0
Murr'undi	73	32	0
Cassilis ..	63	50	0
Mus'brook	69	33	0
Dubbo ..	67	40	0
Maitland..	65	42	0
Newcastle	73	48	0
Orange ..	53	33	0
Bathurst..	60	27	0
MtVictoria	53	36	0
Forbes ..	59	38	0
SYDNEY ..	68	53	0
Wentw'th.	71	..	0
Young ..	57	34	0
Woll'gong	76	55	0
Euston ..	..	..	..
Goulburn	59	30	0
Wagga ..	62	38	0
Cape Geo.	63	54	0·07
Queanb'an	57	36	0
Urana....	..	..	..
Deniliquin	66	43	0
Albury ..	66	35	0
Bodalla ..	68	40	0
Cooma ..	56	37	0
Eden	63	52	0·08
Gabo Isld.	61	50	0·87



SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 32′ 45″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years.. 51·664
Average of previous 18 Years for period 1 Jan to 1 Apl., 14·729
Total Rainfall from 1 Jan. to 28 April ..... 10·533

EXPLANATION:—R, Rockhampton; B, Brisbane; G, Grafton; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George; E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale

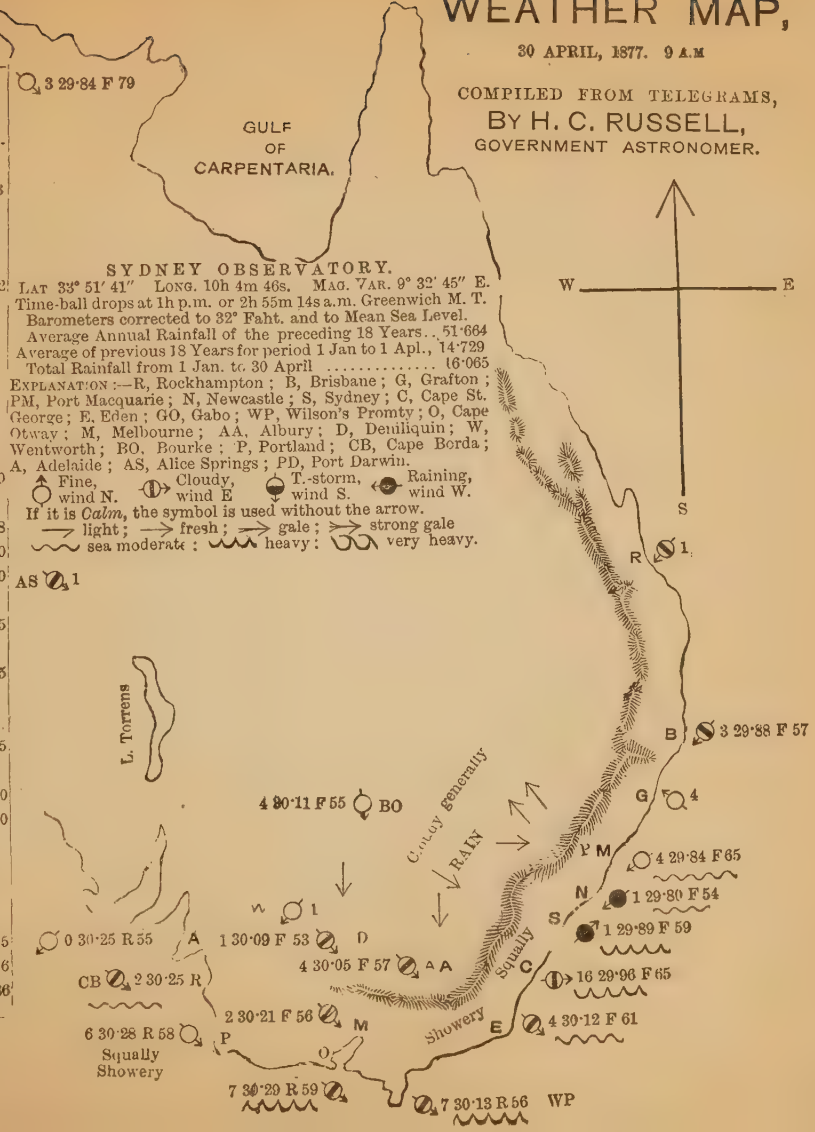
sea moderate; heavy; very heavy.

WEATHER MAP,

30 APRIL, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	..	35	0
Grafton	81	45	0·23
Inverell	66	32	0
Bourke	71	46	0
Narrabri	81	43	0
Armidale	60	33	0·02
Gunnedah	..	..	..
Tamworth	68	32	0
P. Macqrie	68	48	0
Murr'undi	53	27	0
Cassilis	64	35	0
Mus'brook	69	44	0
Dubbo	69	41	0
Maitland	62	53	0·20
Newcastle	63	41	0
Orange	58	46	0·28
Bathurst	69	38	5·40
MtVictoria	52	36	2·40
Forbes	..	..	..
SYDNEY	63	50	3·75
Wentw'th.	71	..	0
Young	63	45	0·15
Woll'gong	6	50	0
Euston	64	40	0
Goulburn	64	38	2·65
Wagga	66	45	0
Cape Geo.	65	51	3·00
Queanb'an	62	43	0·20
Urana	..	..	..
Deniliquin	71	45	0
Albury	68	38	0
Bodalla	..	..	..
Cooma	53	41	0·15
Eden	62	55	0·26
Gabo Isld.	62	..	0·86



SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 32′ 45″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years.. 51·664
Average of previous 18 Years for period 1 Jan to 1 Apl., 14·729
Total Rainfall from 1 Jan. to 30 April ..... 16·065

EXPLANATION :—R, Rockhampton ; B, Brisbane ; G, Grafton ; PM, Port Macquarie ; N, Newcastle ; S, Sydney ; C, Cape St. George ; E, Eden ; GO, Gabo ; WP, Wilson's Promty ; O, Cape Otway ; M, Melbourne ; AA, Albury ; D, Deniliquin ; W, Wentworth ; BO, Bourke ; P, Portland ; CB, Cape Borda ; A, Adelaide ; AS, Alice Springs ; PD, Port Darwin.

Fine, wind N. Cloudy, wind E T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light ; fresh ; gale ; strong gale

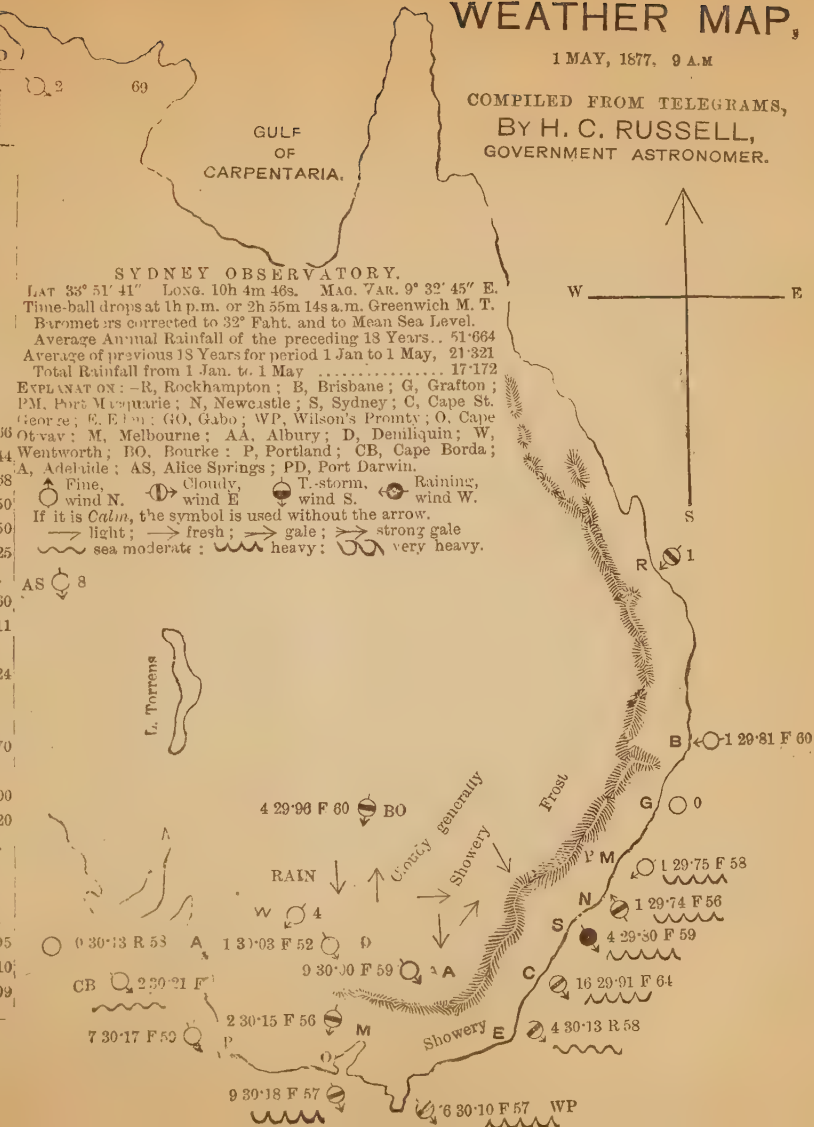
sea moderate : heavy : very heavy.

WEATHER MAP,

1 MAY, 1877, 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	..	32	0
Grafton ..	80	40	0
Inverell ..	67	31	0
Bourke ..	70	52	0
Narrabri ..	98	40	0
Armidale	61	30	0
Gunnedah	67	40	0
Tamworth	69	34	0
P. Macqrie	68	48	0
Murr'undi	65	28	0
Cassilis ..	64	47	0
Mus'brook	72	51	0·66
Dubbo ..	64	41	0·44
Maitland..	60	58	1·68
Newcastle	63	39	4·50
Orange ..	51	45	1·50
Bathurst..	57	45	1·25
MtVictoria	..	..	..
Forbes ..	71	56	1·60
SYDNEY ..	66	55	1·11
Wentw'th.	71	46	0
Young ..	58	48	0·24
Woll'gong	61	50	0
Euston ..	70	47	0
Goulburn	55	50	1·70
Wagga ..	68	56	0
Cape Geo	66	58	0·90
Queanb'an	62	49	0·20
Urana....	..	..	..
Deniliquin	69	46	0
Albury ..	67	51	0
Bodalla ..	..	..	..
Cooma ..	54	41	0·05
Eden	61	55	0·10
Gabo Isld.	62	55	0·09

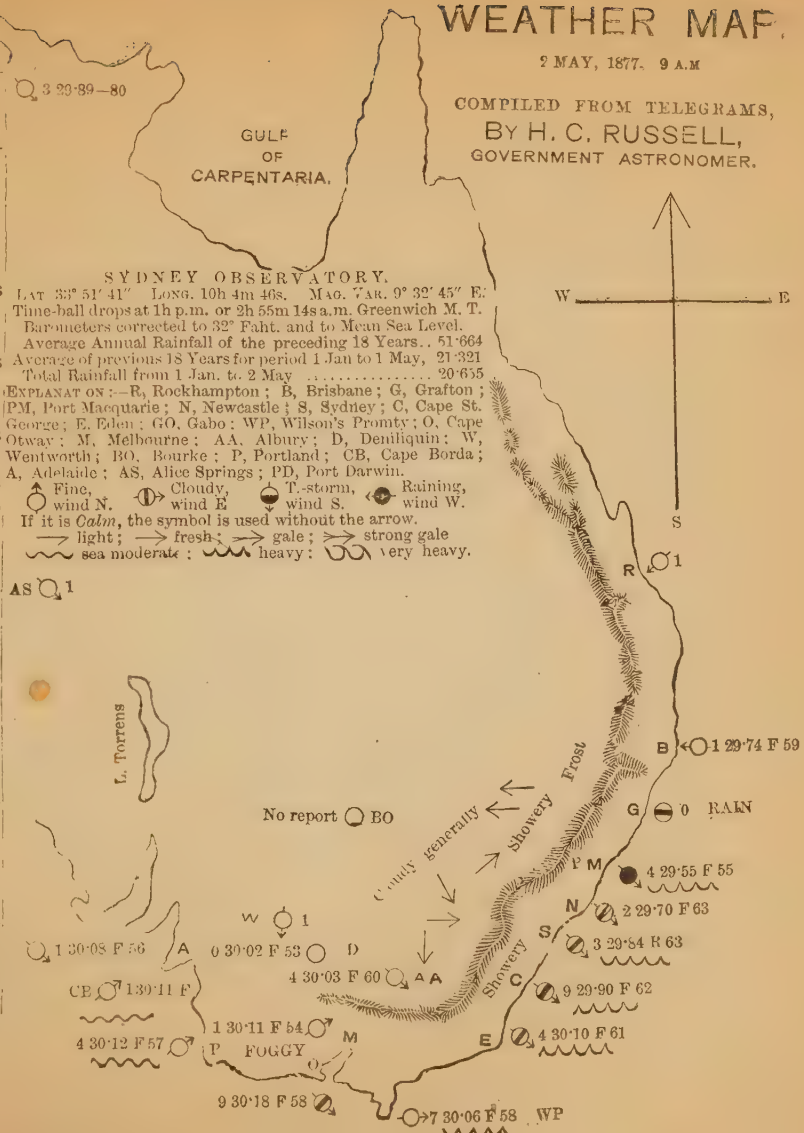


WEATHER MAP.

2 MAY, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	..	32	0
Grafton ..	79	51	0
Inverell ..	66	31	0
Bourke ..	..	..	.
Narrabri ..	78	47	0
Armidale .	62	31	0 03
Gunnedah	71	42	0
Tamworth	68	52	0
P. Macqrie	68	53	0·36
Murr'undi	64	30	0
Cassilis ..	..	..	..
Mus'brook	64	50	0·23
Dubbo ..	..	..	..
Maitland..	62	56	0·65
Newcastle	70	42	0·40
Orange ..	53	46	0·55
Bathurst..	57	45	0
MtVictoria	..	..	..
Forbes ..	70	49	0·50
SYDNEY ..	65	55	3·48
Wentw'th.	75	42	0
Young ..	60	49	0
Woll'gong	69	55	0
Euston ..	70	43	0
Goulburn	52	49	2·45
Wagga ..	70	45	0
Cape Geo.	66	58	2·24
Queanb'an	59	49	0
Urana....	..	..	..
Deniliquin	80	46	0
Albury ..	70	48	0
Bodalla ..	63	52	0·69
Cooma ..	55	42	0·07
Eden	62	56	0·16
Gabo Isld.	62	57	0·03

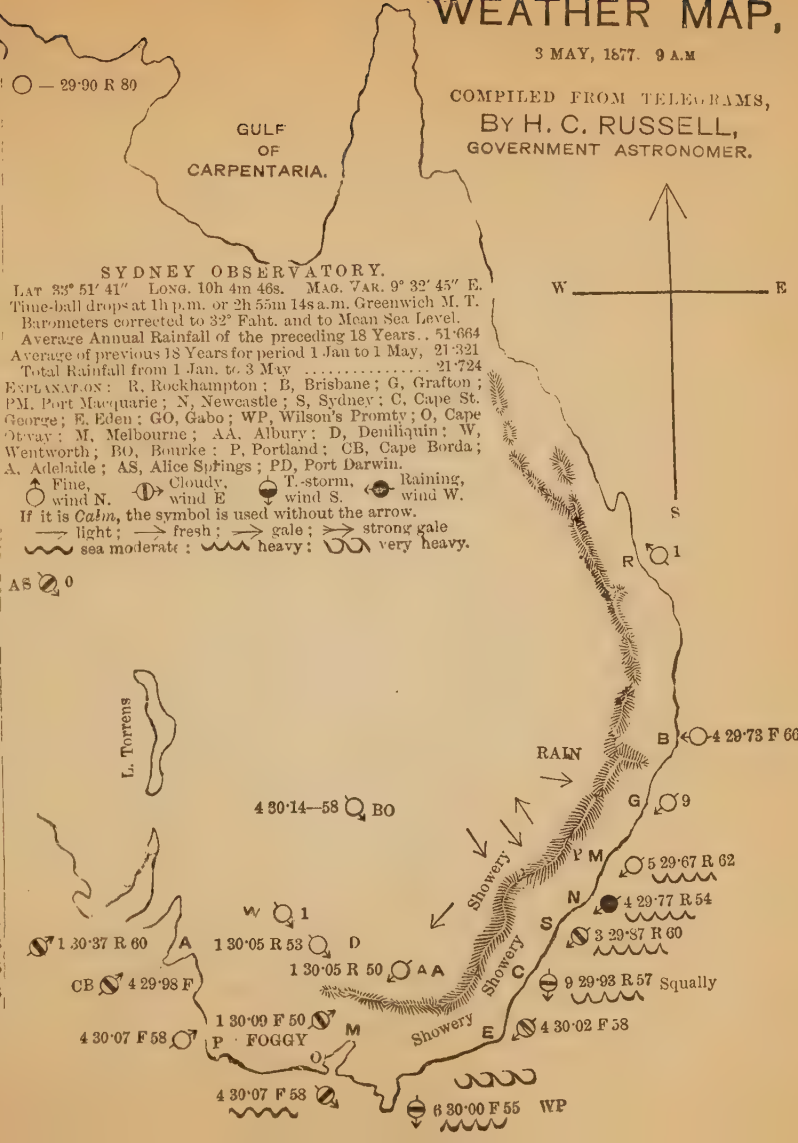


WEATHER MAP,

3 MAY, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfield	..	37	0
Grafton ..	73	5[illegible]	0·09
Inverell ..	67	40	0
Bourke ..	75	4[illegible]	0
Narrabri ..	72	38	0
Armidale .	55	45	0 01
Gunnedah	..	..	..
Tamworth	65	51	0
P. Macqrie	66	36	0 32
Murr'undi	72	40	0
Cassilis ..	61	40	0·04
Mus'brook	66	3	0·11
Dubbo ..	69	47	0
Maitland..	65	50	0·62
Newcastle	72	56	1·35
Orange ..	59	41	0
Bathurst..	..	..	..
MtVictoria	..	..	..
Forbes ..	68	47	0
SYDNEY ..	67	57	1·07
Wentw'th.	77	41	0
Young ..	66	42	0
Woll'gong	66	50	0
Euston ..	78	35	0
Goulburn	57	45	0·04
Wagga ..	72	43	0
Cape Geo.	63	55	0·57
Queanb'an	64	45	0
Urana....	..	..	..
Deniliquin	75	41	0
Albury ..	74	39	0
Bodalla ..	64	50	0·61
Cooma ..	58	43	0·03
Eden	64	54	0·15
Gabo Isld.	62	57	0·16

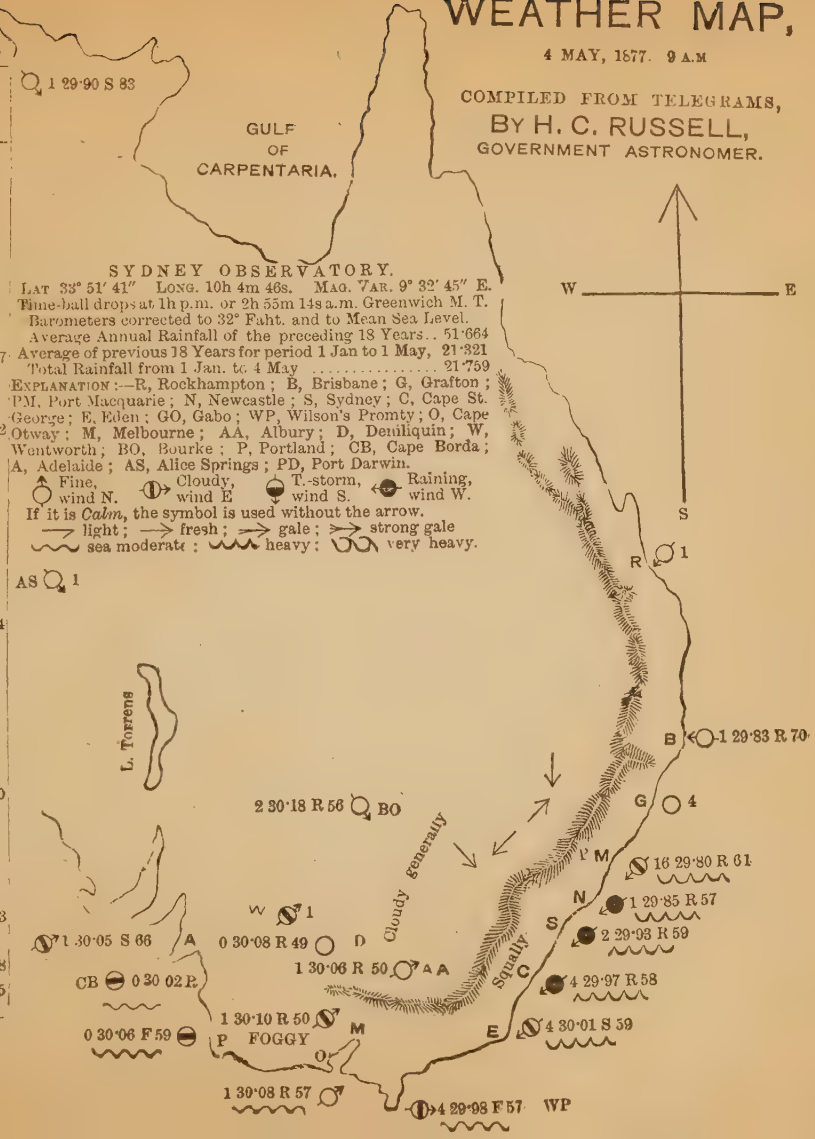


WEATHER MAP,

4 MAY, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	..	47	0
Grafton ..	81	53	0
Inverell ..	69	40	0
Bourke ..	75	46	0
Narrabri..	80	41	0
Armidale.	61	40	0
Gunnedah	79	44	0
Tamworth	69	45	0
P. Macqrie	66	57	0·07
Murr'undi	66	3[illegible]	0
Cassilis ..	68	37	0
Mus'brook	71	55	0·62
Dubbo ..	..	..	..
Maitland..	65	53	0
Newcastle	69	50	0
Orange ..	60	41	0
Bathurst..	62	38	0
MtVictoria	..	..	..
Forbes ..	..	..	..
SYDNEY ..	64	57	0·04
Wentw'th.	79	50	0
Young ..	65	38	0
Woll'gong	66	50	0
Euston ..	78	38	0
Goulburn	56	45	0
Wagga ..	70	40	0
Cape Geo.	63	57	0·20
Queanb'an	65	42	0
Urana....	..	..	..
Deniliquin	73	39	0
Albury ..	73	37	0
Bodalla ..	66	52	0·53
Cooma ..	..	..	..
Eden	62	56	0·08
Gabo Isld.	62	58	0·05

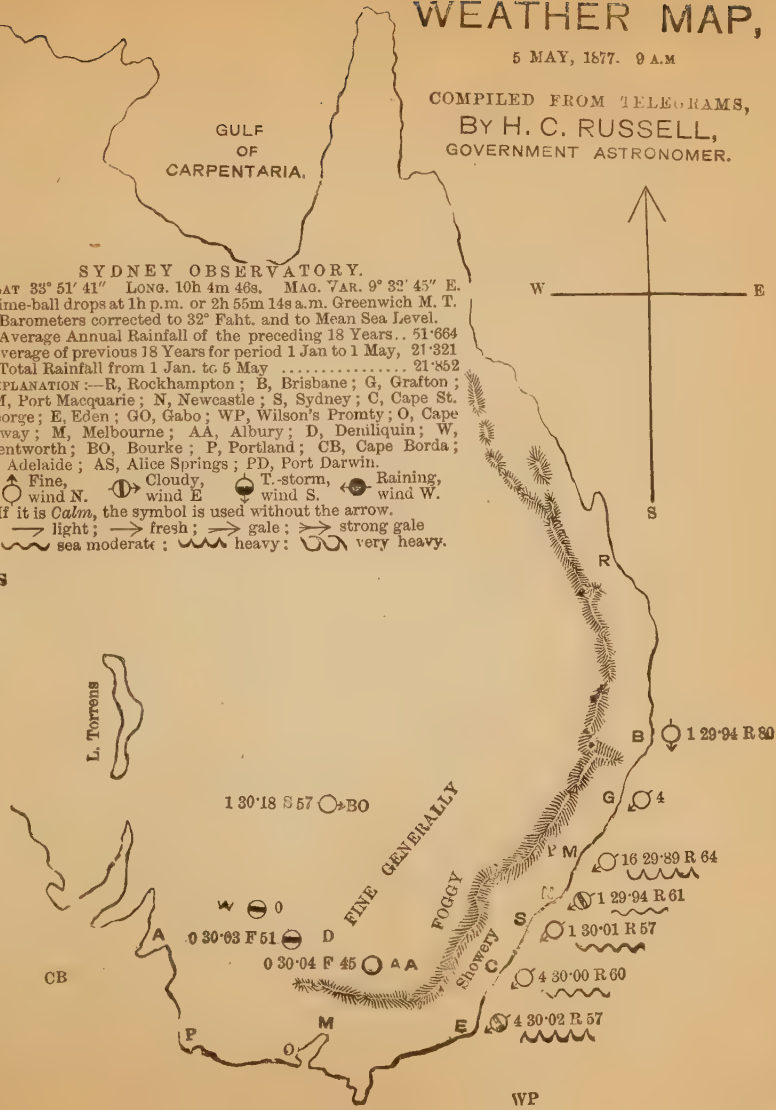


WEATHER MAP,

5 MAY, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain
Tenterf'ld.	..	39	0
Grafton ..	82	48	0·05
Inverell ..	69	37	0
Bourke ..	75	48	0
Narrabri ..	83	44	0
Armidale .	63	38	0
Gunnedah	..	..	..
Tamworth	72	40	0
P. Macqrie	70	59	0
Murr'undi	66	30	0
Cassilis ..	68	43	0
Mus'brook	73	46	0·02
Dubbo ..	63	47	0
Maitland..	67	55	0
Newcastle	66	42	0·45
Orange ..	58	38	0
Bathurst..	65	35	0
MtVictoria	57	40	0
Forbes ..	67	44	0
SYDNEY ..	65	54	0·09
Wentw'th.	84	51	0
Young ..	66	40	0
Woll'gong	71	55	0
Euston ..	94	45	0
Goulburn	61	40	0
Wagga ..	69	40	0
Cape Geo.	63	56	0·11
Queanb'an	66	42	0
Urana....	..	..	..
Deniliquin	72	41	0
Albury ..	73	37	0
Bodalla ..	68	39	0
Cooma ..	65	42	0
Eden	65	53	0·01
Gabo Isld.	63	55	0



SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 32′ 45″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years.. 51·664
Average of previous 18 Years for period 1 Jan to 1 May, 21·321
Total Rainfall from 1 Jan. to 5 May ..... 21·852

EXPLANATION :—R, Rockhampton ; B, Brisbane ; G, Grafton ; PM, Port Macquarie ; N, Newcastle ; S, Sydney ; C, Cape St. George ; E, Eden ; GO, Gabo ; WP, Wilson's Promty ; O, Cape Otway ; M, Melbourne ; AA, Albury ; D, Deniliquin ; W, Wentworth ; BO, Bourke ; P, Portland ; CB, Cape Borda ; A, Adelaide ; AS, Alice Springs ; PD, Port Darwin.

Fine, wind N. Cloudy, wind E T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

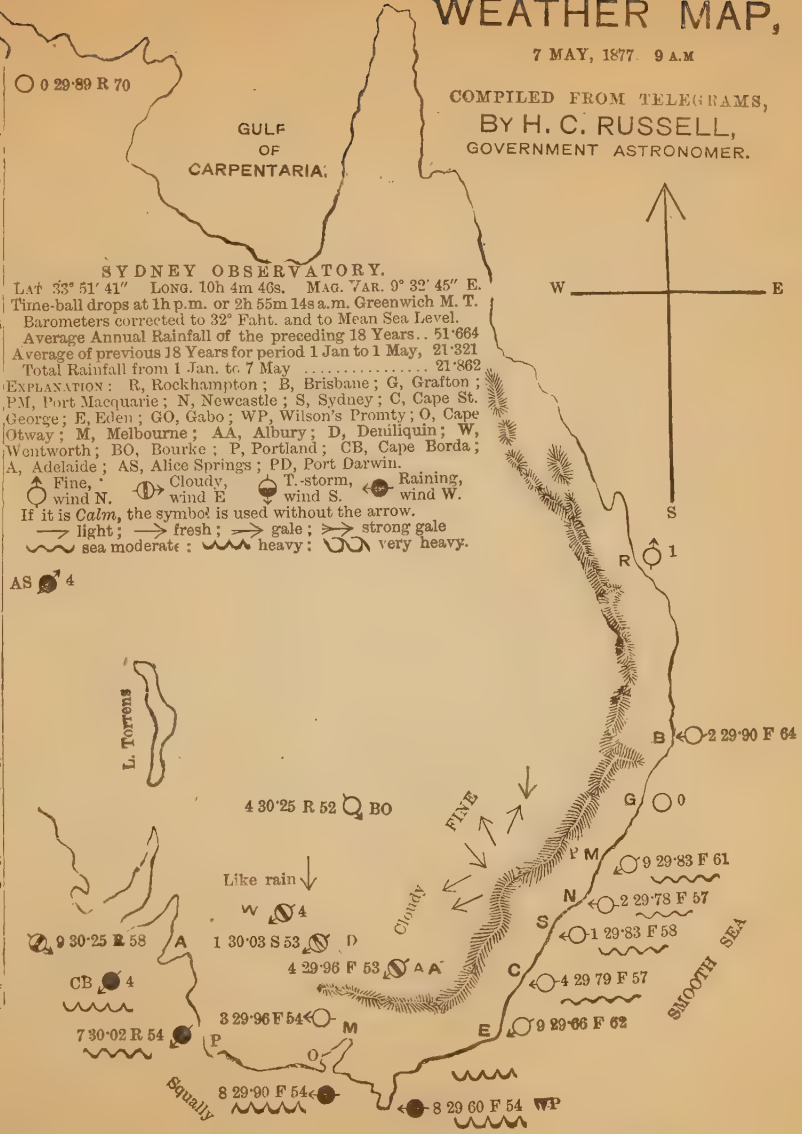
light ; fresh ; gale ; strong gale
sea moderate ; heavy ; very heavy.

WEATHER MAP,

7 MAY, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain
Tenterfi'ld	70	49	0
Grafton ..	51	40	0·10
Inverell ..	69	41	0
Bourke ..	79	47	0
Narrabri ..	79	45	0
Armidale ..	65	39	0
Gunnedah	..	..	..
Tamworth	66	45	0·16
P. Macqrie	70	53	0
Murr'undi	66	43	0
Cassilis ..	68	48	0
Mus'brook	73	47	0
Dubbo ..	67	50	0
Maitland ..	70	52	0
Newcastle	74	41	0
Orange ..	55	43	0·07
Bathurst ..	..	..	..
Mt Victoria	56	38	0
Forbes ..	68	47	0
SYDNEY ..	68	53	0
Wentw'th.	60	52	0
Young ..	67	44	0
Woll'gong	..	..	..
Euston ..	60	52	0
Goulburn	61	47	0
Wagga ..	68	49	0·08
Cape Geo.	58	46	0·05
Queanb'an	66	43	0
Urana	..	..	..
Deniliquin	64	46	0·23
Albury ..	73	42	0·30
Bodalla ..	66	41	0
Cooma ..	58	38	0
Eden	61	53	0
Gabo Isld.	59	52	0·24



SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 32′ 45″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years.. 51·664
Average of previous 18 Years for period 1 Jan to 1 May, 21·321
Total Rainfall from 1 Jan. to 7 May ..... 21·862

EXPLANATION: R, Rockhampton; B, Brisbane; G, Grafton; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George; E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale

sea moderate; heavy; very heavy.

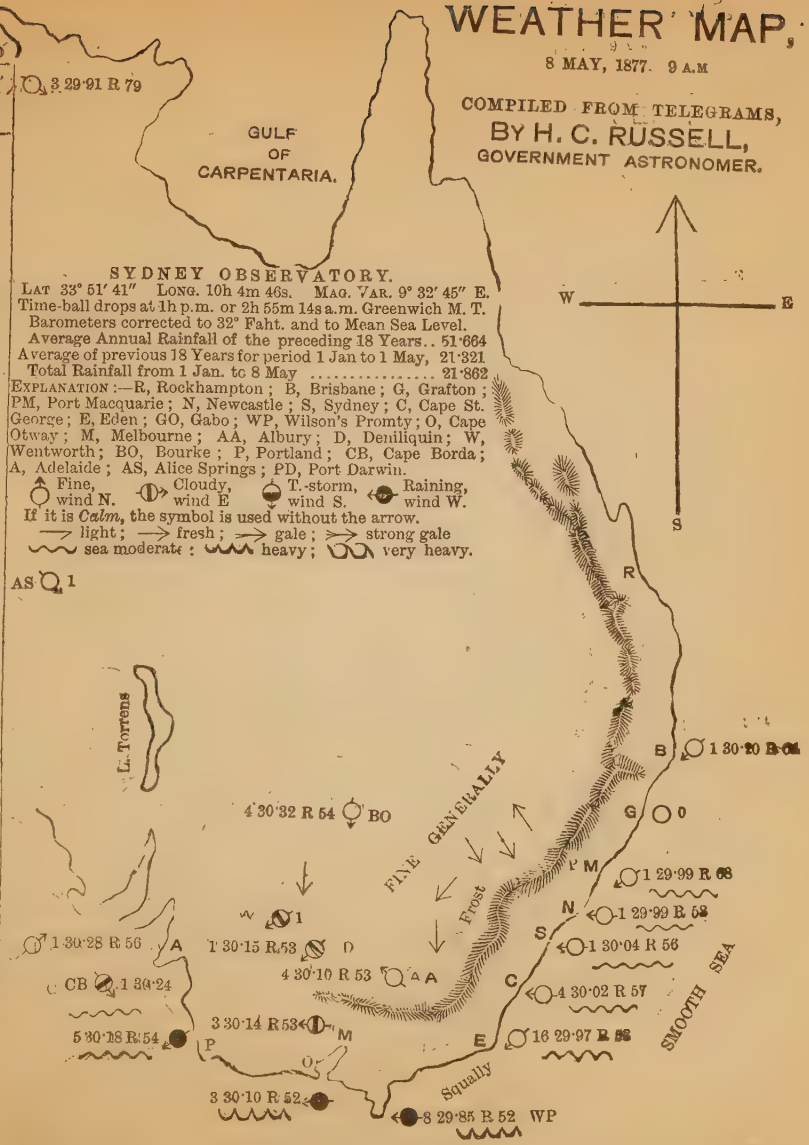
WEATHER MAP,

8 MAY, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain.
Tenterfi'ld	66	35	0
Grafton ..	84	45	0
Inverell ..	70	32	0
Bourke ..	66	45	0
Narrabri ..	76	38	0
Armidale .	62	42	0
Gunnedah	72	39	..
Tamworth	65	35	0
P. Macqrie	88	48	0
Murr'undi	66	46	0
Cassilis ..	..	..	..
Mus'brook	69	47	0
Dubbo ..	69	57	0
Maitland..	65	52	0
Newcastle	70	42	0
Orange ..	53	42	0
Bathurst..	58	43	0
MtVictoria	54	39	0
Forbes ..	65	47	0
SYDNEY ..	68	53	0
Wentw'th.	67	51	0
Young ..	57	46	0
Woll'gong	66	50	0
Euston ..	66	51	0
Goulburn	66	49	0
Wagga ..	66	42	0
Cape Geo.	64	53	0
Queanb'an	49	42	0
Urana....	..	..	..
Deniliquin	63	50	0
Albury ..	62	46	0
Bodalla ..	73	36	0
Cooma ..	65	27	0
Eden	70	55	0
Gabo Isld.	63	55	0·06

SYDNEY OBSERVATORY.
LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 32′ 45″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years.. 51·664
Average of previous 18 Years for period 1 Jan to 1 May, 21·321
Total Rainfall from 1 Jan. to 8 May ..... 21·862
EXPLANATION :—R, Rockhampton ; B, Brisbane ; G, Grafton ; PM, Port Macquarie ; N, Newcastle ; S, Sydney ; C, Cape St. George ; E, Eden ; GO, Gabo ; WP, Wilson's Promty ; O, Cape Otway ; M, Melbourne ; AA, Albury ; D, Deniliquin ; W, Wentworth ; BO, Bourke ; P, Portland ; CB, Cape Borda ; A, Adelaide ; AS, Alice Springs ; PD, Port Darwin.
Fine, wind N. Cloudy, wind E T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow.
light ; fresh ; gale ; strong gale
sea moderate : heavy ; very heavy.



WEATHER MAP,

9 MAY, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min	Rain
Tenterfi'ld	71	62	0
Grafton ..	81	40	0
Inverell ..	66	32	0
Bourke ..	..	..	..
Narrabri ..	79	37	0
Armidale .	62	35	0
Gunnedah	..	..	..
Tamworth	61	34	0
P. Macqrie	70	49	0
Murr'undi	68	44	0
Cassilis ..	..	..	..
Mus'brook	70	41	0
Dubbo ..	67	44	0
Maitland..	65	45	0
Newcastle	70	46	0
Orange ..	58	36	0
Bathurst..	66	30	0
MtVictoria	57	36	0
Forbes ..	..	..	..
SYDNEY ..	68	50	0
Wentw'th.	69	45	0
Young ..	65	37	0
Woll'gong	66	50	0
Euston ..	69	43	0
Goulburn	66	39	0
Wagga ..	66	46	0
Cape Geo.	63	50	0
Queanb'an	63	47	0
Urana....	..	..	..
Deniliquin	63	42	0
Albury ..	63	34	0
Bodalla ..	70	40	0
Cooma ..	70	25	0
Eden	69	47	0
Gabo Isld.	60	53	0

SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 32′ 45″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years.. 51·664
Average of previous 18 Years for period 1 Jan to 1 May, 21·321
Total Rainfall from 1 Jan. to 9 May ..... 21·862

EXPLANATION:—R, Rockhampton; B, Brisbane; G, Grafton; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George; E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is without the arrow.

light; fresh; gale; strong gale

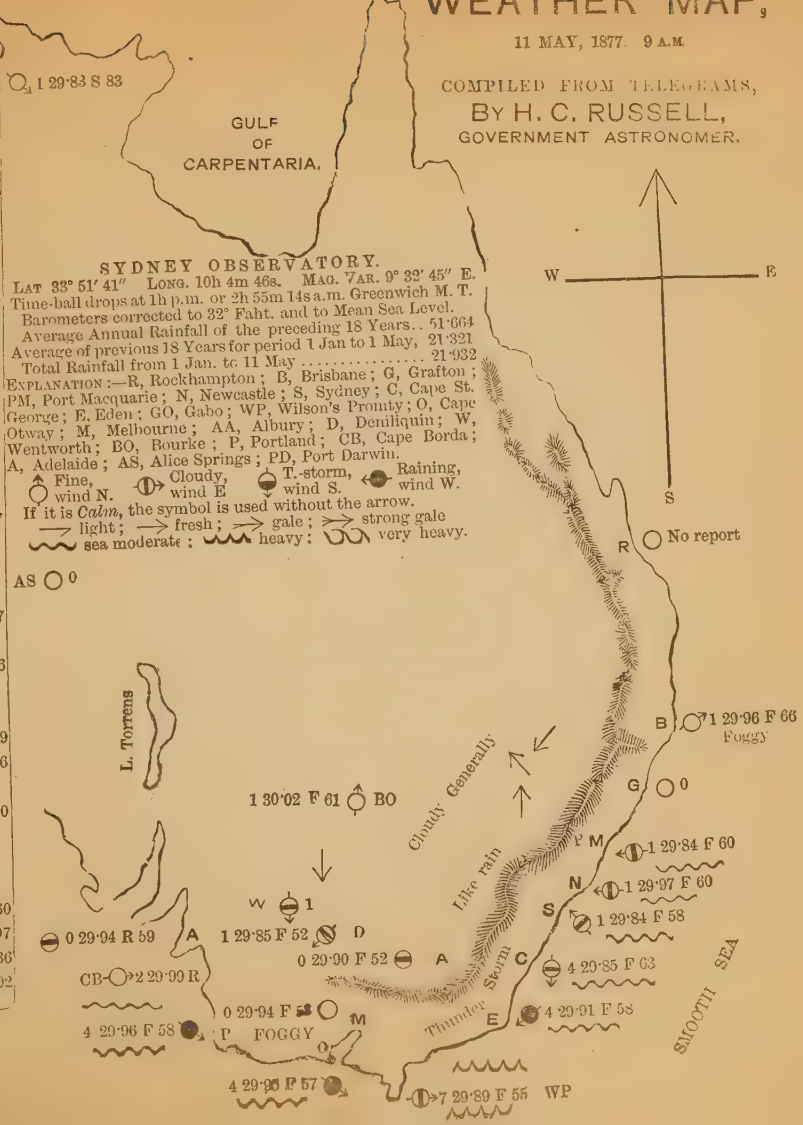
sea moderate: heavy: very heavy.

WEATHER MAP,

11 MAY, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain
Tenterfi'ld	71	54	0·39
Grafton ..	84	59	0
Inverell ..	73	50	0
Bourke ..	77	55	0
Narrabri ..	78	58	0
Armidale ..	61	40	0
Gunnedah	81	50	0·20
Tamworth	73	47	0
P. Macqrie	72	57	0
Murr'undi	70	48	0
Cassilis ..	77	46	0
Mus'brook	77	47	0
Dubbo ..	69	50	0
Maitland ..	68	53	0
Newcastle	72	42	0
Orange ..	60	41	0·07
Bathurst ..	69	41	0
MtVictoria	62	44	0
Forbes ..	57	51	0
SYDNEY ..	68	55	0·07
Wentw'th.	65	52	0
Young ..	66	51	0·06
Woll'gong	71	55	0
Euston ..	71	52	0
Goulburn	67	49	0·09
Wagga ..	64	45	0·06
Cape Geo.	63	56	0
Queanb'an	61	45	0·10
Urana	..	..	..
Deniliquin	66	50	0
Albury ..	66	47	0
Bodalla ..	69	50	0·60
Cooma ..	64	37	0.07
Eden	63	52	1·36
Gabo Isld.	62	53	0·92

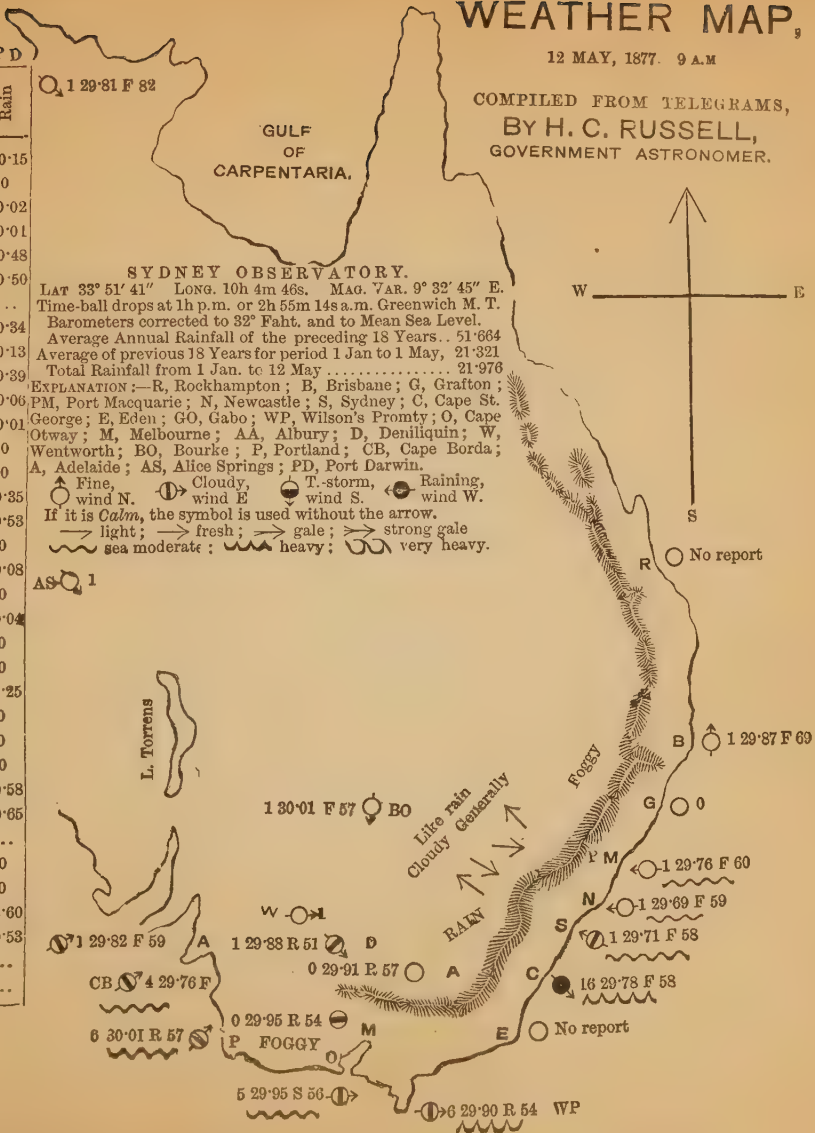


WEATHER MAP,

12 MAY, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain
Tenterfi'ld	63	45	0·15
Grafton ..	87	50	0
Inverell ..	71	42	0·02
Bourke ..	71	50	0·01
Narrabri ..	72	46	0·48
Armidale .	60	47	0·50
Gunnedah	..	..	..
Tamworth	70	46	0·34
P. Macqrie	74	52	0·13
Murr'undi	62	44	0·39
Cassilis ..	64	43	0·06
Mus'brook	78	46	0·01
Dubbo ..	68	50	0
Maitland..	65	53	0
Newcastle	69	37	0·35
Orange ..	59	46	0·53
Bathurst..	68	42	0
MtVictoria	59	41	0·08
Forbes ..	68	51	0
SYDNEY ..	68	57	0·04
Wentw'th.	70	47	0
Young ..	70	54	0
Woll'gong	70	54	1·25
Euston ..	73	45	0
Goulburn	63	52	0
Wagga ..	61	50	0
Cape Geo.	64	50	0·58
Queanb'an	67	48	0·65
Urana....	..	..	..
Deniliquin	67	46	0
Albury ..	63	49	0
Bodalla ..	64	72	3·60
Cooma ..	51	43	0·53
Eden	..	..	..
Gabo Isld.	..	–	..

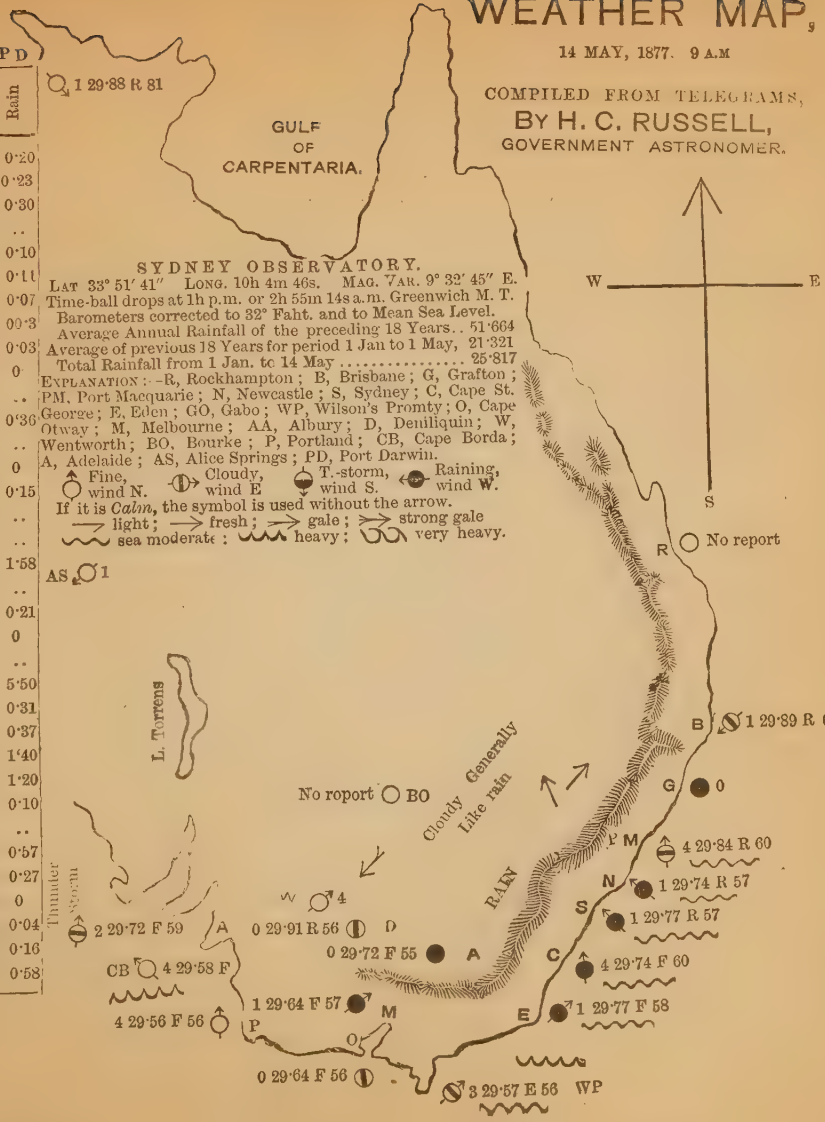


WEATHER MAP,

14 MAY, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain
Tenterfi'ld	66	38	0·20
Grafton ..	82	45	0·23
Inverell ..	70	48	0·30
Bourke ..	..	..	..
Narrabri ..	73	60	0·10
Armidale .	60	45	0·11
Gunnedah	74	50	0·07
Tamworth	61	57	00·3
P. Macqrie	69	55	0·03
Murr'undi	66	44	0
Cassilis ..	—	..	..
Mus'brook	72	53	0·36
Dubbo ..	..	..	..
Maitland..	65	45	0
Newcastle	73	41	0·15
Orange ..	..	..	..
Bathurst..	..	..	..
MtVictoria	54	41	1·58
Forbes ..	..	..	..
SYDNEY ..	62	55	0·21
Wentw'th.	76	52	0
Young ..	..	..	..
Woll'gong	65	52	5·50
Euston ..	64	51	0·31
Goulburn	55	45	0·37
Wagga ..	64	45	1·40
Cape Geo.	60	56	1·20
Queanb'an	55	39	0·10
Urana....	..	..	..
Deniliquin	71	54	0·57
Albury ..	69	39	0·27
Bodalla ..	64	46	0
Cooma ..	55	41	0·04
Eden	59	54	0·16
Gabo Isld.	60	52	0·58

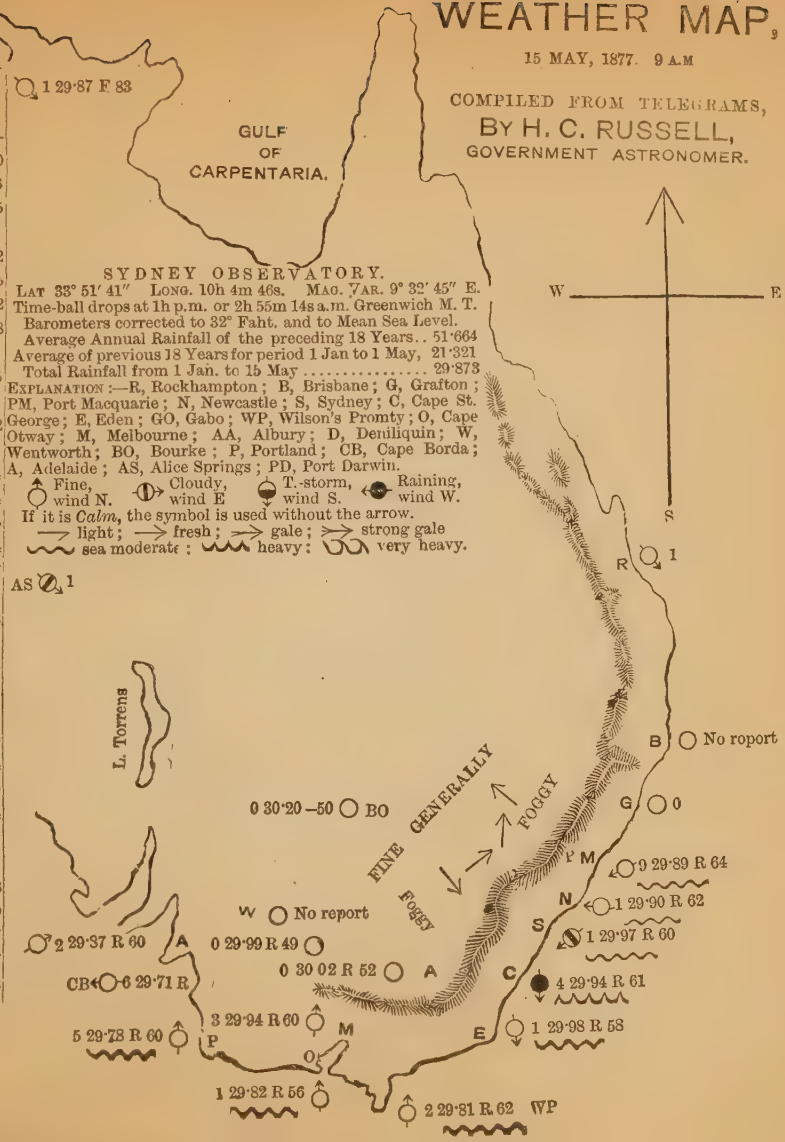


WEATHER MAP,

15 MAY, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain
Tenterfi'ld	58	50	0·50
Grafton ..	74	45	0·16
Inverell ..	62	38	0·85
Bourke ..	77	47	0
Narrabri ..	67	56	0·12
Armidale .	65	40	0·15
Gunnedah	69	45	3·42
Tamworth	63	43	0·28
P. Macqrie	64	53	0
Murr'undi	63	42	0·45
Cassilis ..	—	..	..
Mus'brook	68	48	0·32
Dubbo ..	69	47	0
Maitland ..	65	55	0·04
Newcastle	72	38	0·14
Orange ..	58	49	0·25
Bathurst ..	62	48	0·04
MtVictoria	59	44	0·07
Forbes ..	..	..	..
SYDNEY ..	66	57	0·06
Wentw'th.	..	..	..
Young ..	62	41	0·20
Woll'gong	66	53	0
Euston ..	68	45	0
Goulburn	53	42	0·09
Wagga ..	62	48	0·14
Cape Geo.	64	58	0·09
Queanb'an	57	41	0·34
Urana....	..	..	..
Deniliquin	68	45	0
Albury ..	61	44	0·18
Bodalla ..	63	43	0·60
Cooma ..	57	36	0·17
Eden	59	55	0·17
Gabo Isld.	61	55	0·93



SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 32′ 45″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years.. 51·664
Average of previous 18 Years for period 1 Jan to 1 May, 21·321
Total Rainfall from 1 Jan. to 15 May ..... 29·873

EXPLANATION :—R, Rockhampton ; B, Brisbane ; G, Grafton ; PM, Port Macquarie ; N, Newcastle ; S, Sydney ; C, Cape St. George ; E, Eden ; GO, Gabo ; WP, Wilson's Promty ; O, Cape Otway ; M, Melbourne ; AA, Albury ; D, Deniliquin ; W, Wentworth ; BO, Bourke ; P, Portland ; CB, Cape Borda ; A, Adelaide ; AS, Alice Springs ; PD, Port Darwin.

Fine, wind N. Cloudy, wind E T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light ; fresh ; gale ; strong gale

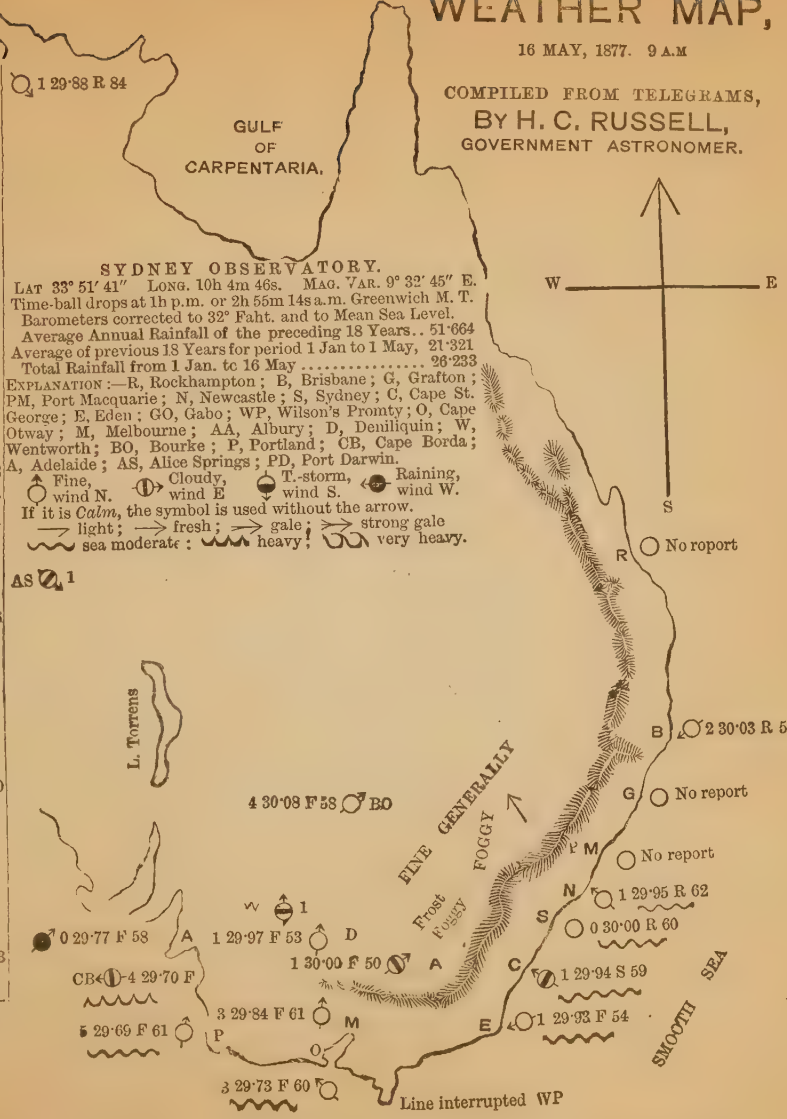
sea moderate ; heavy ; very heavy.

WEATHER MAP,

16 MAY, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain
Tenterfi'ld	64	43	0
Grafton ..	..	..	..
Inverell ..	67	45	0
Bourke ..	76	50	0
Narrabri ..	70	46	0
Armidale .	58	45	0
Gunnedah	73	45	3
Tamworth	66	42	0
P. Macqrie	..	..	..
Murr'undi	63	44	0
Cassilis ..	65	39	0
Mus'brook	74	50	0
Dubbo ..	69	46	0
Maitland ..	66	58	0·02
Newcastle	70	38	0·15
Orange ..	59	40	0·01
Bathurst ..	48	40	0
MtVictoria	59	45	0
Forbes ..	64	49	0
SYDNEY ..	64	59	0·36
Wentw'th.	75	49	0
Young ..	65	37	0
Woll'gong	66	50	0
Euston ..	72	42	0
Goulburn	62	45	0
Wagga ..	61	43	0
Cape Geo.	62	57	0·20
Queanb'an	63	44	0
Urana	..	..	..
Deniliquin	70	45	0
Albury ..	68	42	0
Bodalla ..	74	48	0
Cooma ..	64	32	0
Eden	62	52	0·03
Gabo Isld.	63	56	0

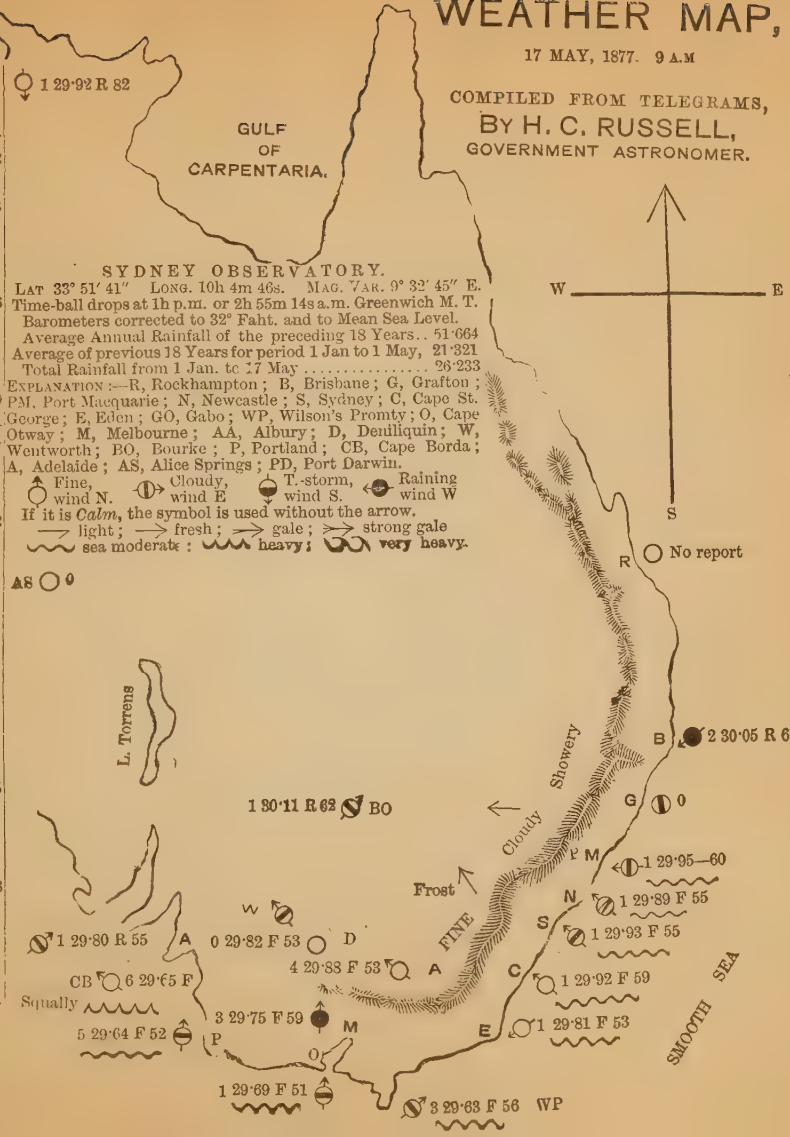


WEATHER MAP,

17 MAY, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain
Tenterfi'ld	64	50	0·02
Grafton ..	81	60	0·15
Inverell ..	69	49	0·03
Bourke ..	75	57	0
Narrabri ..	72	54	0
Armidale .	60	43	0
Gunnedah	79	56	0·06
Tamworth	70	46	0
P. Macqrie	72	55	0
Murr'undi	63	46	0
Cassilis ..	68	48	0·20
Mus'brook	72	48	0·04
Dubbo ..	68	47	0·37
Maitland..	67	48	0
Newcastle	74	55	0
Orange ..	57	41	0·02
Bathurst..	65	38	0
MtVictoria	58	42	0
Forbes ..	68	53	0
SYDNEY ..	68	52	0
Wentw'th.	..	..	..
Young ..	68	38	0
Woll'gong	71	55	0
Euston ..	74	42	0
Goulburn	63	39	0
Wagga ..	67	47	0
Cape Geo.	63	55	0·05
Queanb'an	63	40	0
Urana....	..	..	..
Deniliquin	70	49	0
Albury ..	70	42	0·18
Bodalla ..	73	38	0
Cooma ..	..	..	..
Eden	66	48	0
Gabo Isld.	64	54	0

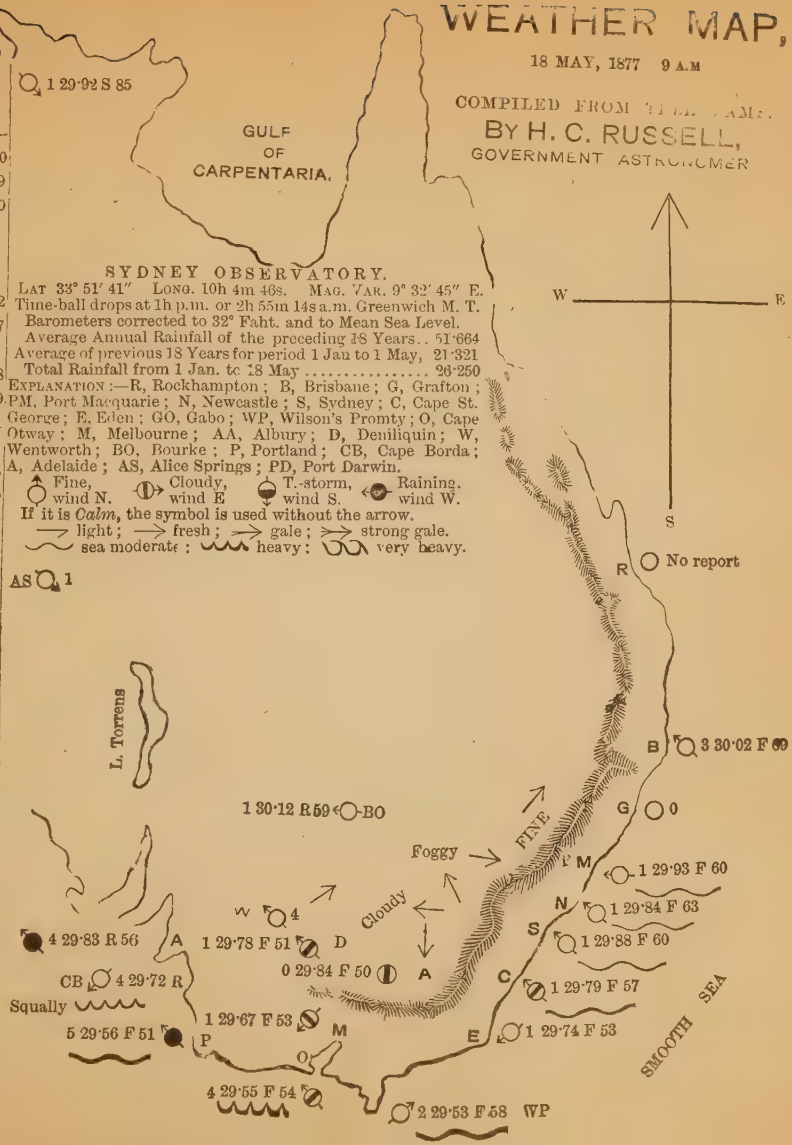


WEATHER MAP,

18 MAY, 1877 9 A.M

COMPILED FROM THE TELEGRAMS.
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER

Stations.	Max.	Min.	Rain
Tenterfi'ld	60	52	0·50
Grafton ..	64	52	0 09
Inverell ..	63	52	0·20
Bourke ..	77	55	0
Narrabri..	73	59	0
Armidale .	59	49	0
Gunnedah	76	55	0·12
Tamworth	61	49	0·07
P. Macqrie	73	52	0
Murr'undi	65	46	0·38
Cassilis ..	65	46	0·09
Mus'brook	69	50	0·01
Dubbo ..	68	51	0
Maitland..	65	55	0·15
Newcastle	73	41	0·10
Orange ..	59	47	0·30
Bathurst..	64	40	0·05
MtVictoria	58	44	0
Forbes ..	67	51	0
SYDNEY ..	67	55	0·02
Wentw'th.	77	48	0
Young ..	65	42	0·28
Woll'gong	71	55	0
'uston ..	71	45	0
Goulburn	65	43	0
Wagga ..	68	45	0
Cape Geo.	67	54	0
Queanb'an	59	41	0
Urana....	..	..	..
Deniliquin	70	46	0
Albury ..	70	41	0
Bodalla ..	74	40	0
Cooma ..	62	34	0
Eden	64	50	0
Gabo Isld.	65	55	0



SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 32′ 45″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years.. 51·664
Average of previous 18 Years for period 1 Jan to 1 May, 21·321
Total Rainfall from 1 Jan. to 18 May ..... 26·250

EXPLANATION :—R, Rockhampton ; B, Brisbane ; G, Grafton ; PM, Port Macquarie ; N, Newcastle ; S, Sydney ; C, Cape St. George ; E, Eden ; GO, Gabo ; WP, Wilson's Promty ; O, Cape Otway ; M, Melbourne ; AA, Albury ; D, Deniliquin ; W, Wentworth ; BO, Bourke ; P, Portland ; CB, Cape Borda ; A, Adelaide ; AS, Alice Springs ; PD, Port Darwin.

Fine, wind N. Cloudy, wind E T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow.

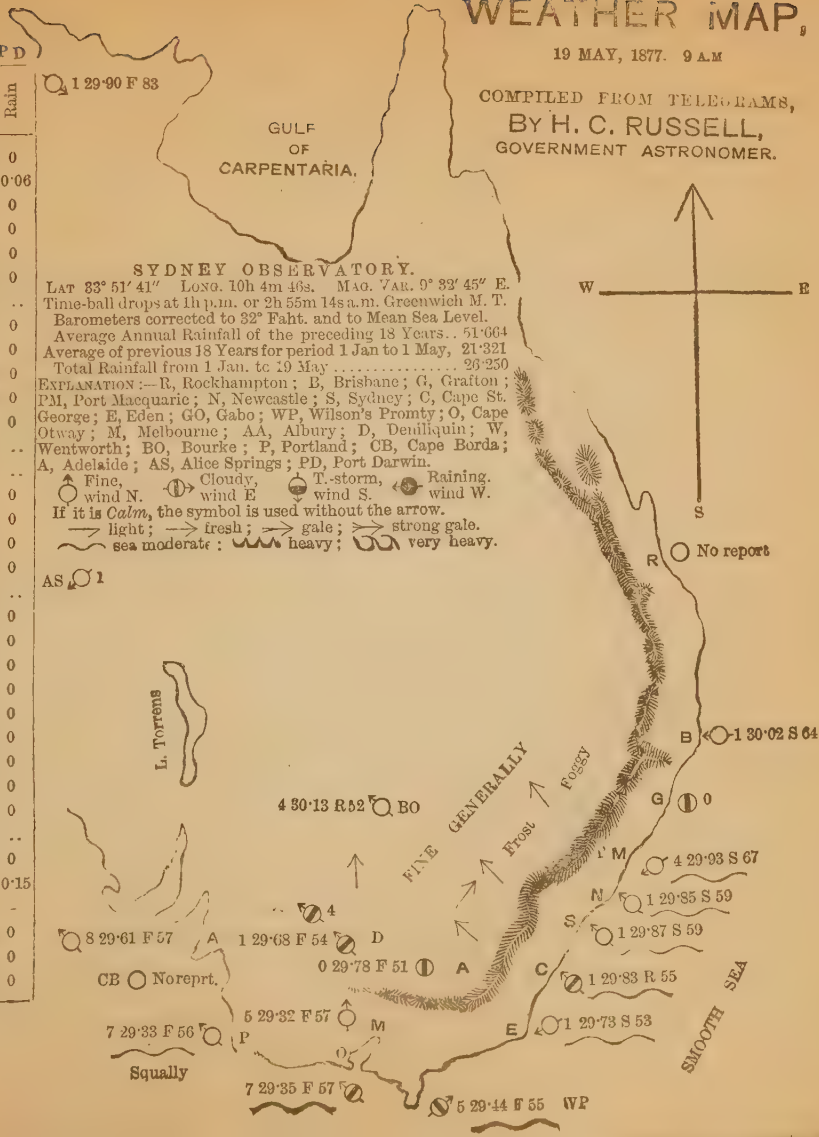
light ; fresh ; gale ; strong gale.
sea moderate : heavy : very heavy.

WEATHER MAP,

19 MAY, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain
Tenterfi'ld	82	48	0
Grafton ..	82	43	0·06
Inverell ..	67	48	0
Bourke ..	73	47	0
Narrabri ..	75	47	0
Armidale .	61	45	0
Gunnedah	..	..	..
Tamworth	70	43	0
P. Macqrie	74	50	0
Murr'undi	66	46	0
Cassilis ..	67	38	0
Mus'brook	73	45	0
Dubbo ..	..	..	..
Maitland..	..	..	..
Newcastle	73	47	0
Orange ..	58	36	0
Bathurst..	65	32	0
Mt Victoria	55	41	0
Forbes ..	..	..	..
SYDNEY ..	70	56	0
Wentw'th.	70	52	0
Young ..	62	38	0
Woll'gong	62	37	0
Euston ..	70	43	0
Goulburn	65	44	0
Wagga ..	68	45	0
Cape Geo.	66	51	0
Queanb'an	62	44	0
Urana....	..	..	..
Deniliquin	65	49	0
Albury ..	63	42	0·15
Bodalla ..	..	..	-
Cooma ..	64	40	0
Eden	64	48	0
Gabo Isld.	65	54	0



WEATHER MAP,

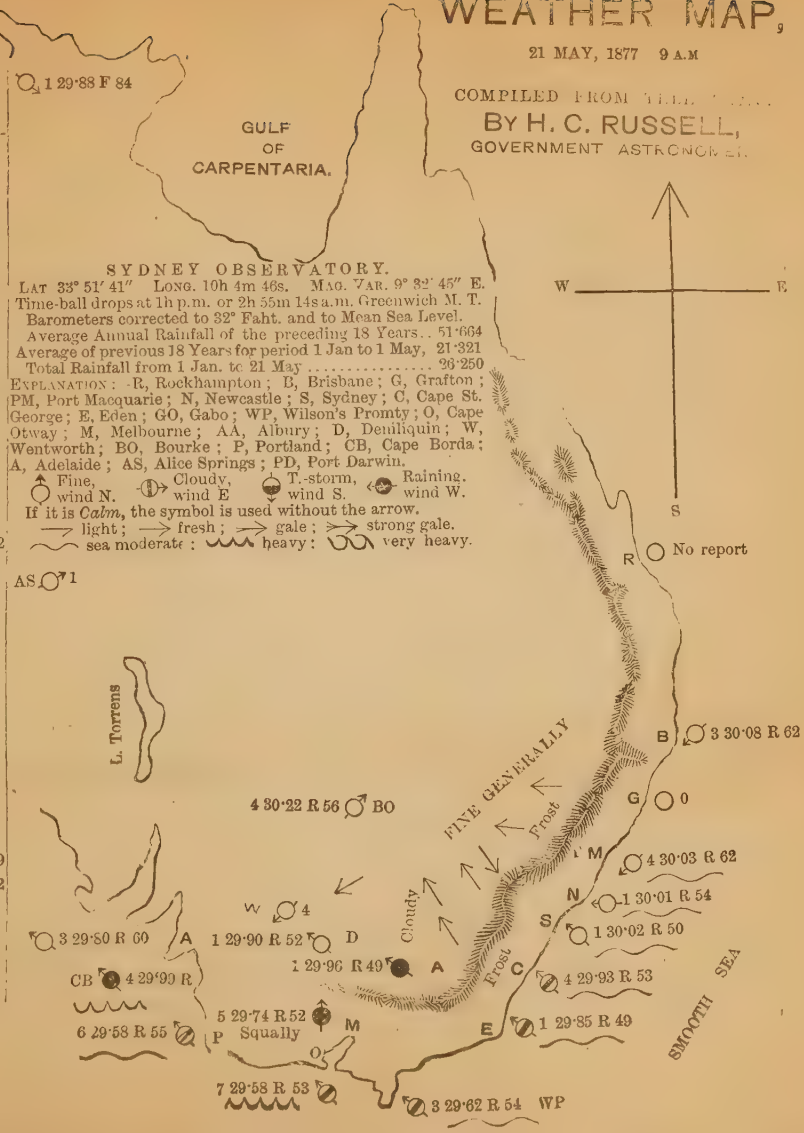
21 MAY, 1877 9 A.M

COMPILED FROM THE [illegible]

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain
Tenterfi'ld	63	40	0
Grafton ..	70	55	0
Inverell ..	67	32	0
Bourke ..	74	46	0
Narrabri ..	70	42	0
Armidale .	57	38	0
Gunnedah	76	38	0
Tamworth	65	35	0
P. Macqrie	73	42	0
Murr'undi	66	41	0
Cassilis ..	65	39	0
Mus'brook	68	44	0
Dubbo ..	68	46	0
Maitland ..	63	47	0
Newcastle	70	40	0
Orange ..	60	40	0
Bathurst ..	61	39	0·02
Mt Victoria	54	34	0
Forbes ..	59	41	0
SYDNEY ..	64	47	0
Wentw'th.	66	50	0
Young ..	57	41	0
Woll'gong	61	50	0
Euston ..	62	45	0
Goulburn	61	42	0
Wagga ..	62	45	0
Cape Geo.	60	48	0
Queanb'an	62	42	0
Urana	..	..	..
Deniliquin	63	41	0·09
Albury ..	65	42	0·32
Bodalla ..	66	32	0
Cooma ..	62	38	0
Eden	61	47	0
Gabo Isld.	61	51	0



SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 32′ 45″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 18 Years.. 51·664

Average of previous 18 Years for period 1 Jan to 1 May, 21·321

Total Rainfall from 1 Jan. to 21 May ..... 26·250

EXPLANATION: -R, Rockhampton; B, Brisbane; G, Grafton; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George; E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

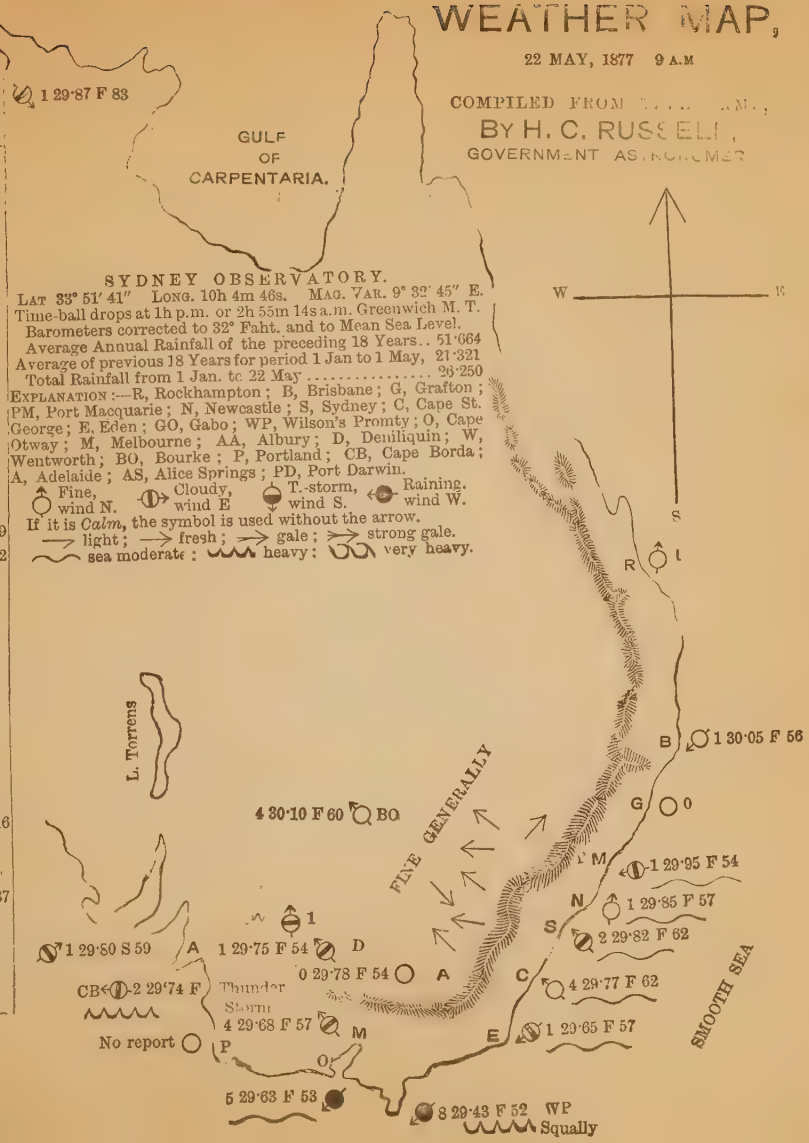
sea moderate; heavy; very heavy.

WEATHER MAP,

22 MAY, 1877 9 A.M

COMPILED FROM [illegible]
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER

Stations.	Max.	Min.	Rain
Tenterfi'ld	61	40	0
Grafton ..	80	43	0
Inverell ..	62	37	0
Bourke ..	76	46	0
Narrabri ..	71	45	0
Armidale .	53	39	0
Gunnedah	74	44	0
Tamworth	69	40	0
P. Macqrie	67	47	0
Murr'undi	66	46	0
Cassilis ..	65	47	0
Mus'brook	69	46	0
Dubbo ..	66	44	0
Maitland..	65	45	0
Newcastle	68	38	0
Orange ..	56	41	0·09
Bathurst..	62	43	0·02
MtVictoria	62	40	0
Forbes ..	65	46	0
SYDNEY ..	64	51	0
Wentw'th.	76	52	0
Young ..	61	42	0
Woll'gong	66	50	0
Euston ..	73	43	0
Goulburn	58	37	0
Wagga ..	66	50	0
Cape Geo.	61	55	0
Queanb'an	58	44	0·16
Urana....	..	..	..
Deniliquin	70	59	0
Albury ..	65	46	0·37
Bodalla ..	67	39	0
Cooma ..	49	39	0
Eden	62	49	0
Gabo Isld.	62	56	0

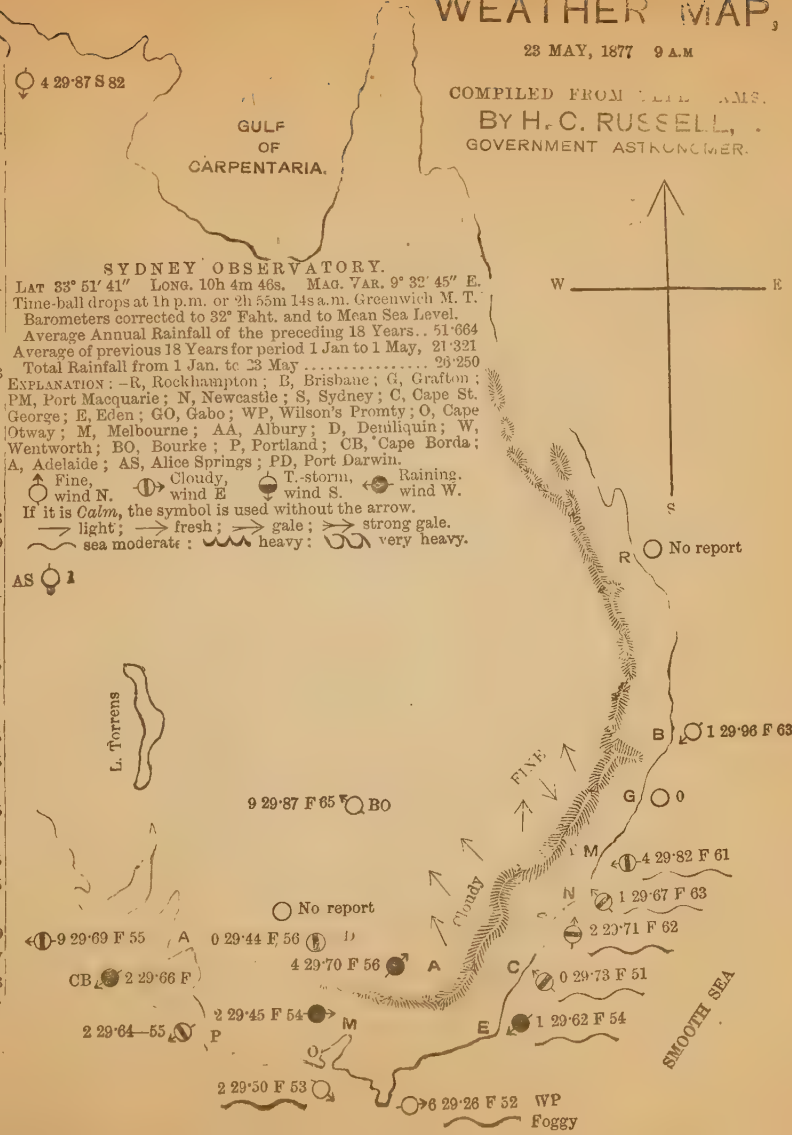


WEATHER MAP,

23 MAY, 1877 9 A.M

COMPILED FROM TELEGRAMS.
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain
Tenterfi'ld	65	45	0
Grafton ..	81	47	0
Inverell ..	67	43	0
Bourke ..	79	59	0
Narrabri ..	76	54	0
Armidale .	60	49	0
Gunnedah	73	50	0
Tamworth	70	45	0
P. Macqrie	64	56	0
Murr'undi	64	46	0·03
Cassilis ..	77	54	0
Mus'brook	75	56	0
Dubbo ..	66	47	0
Maitland ..	73	50	0
Newcastle	76	61	0
Orange ..	58	48	0·23
Bathurst ..	65	44	0·09
MtVictoria	57	46	0
Forbes ..	66	52	0·21
SYDNEY ..	72	61	0
Wentw'th.	..	..	..
Young ..	65	47	0·35
Woll'gong	71	55	0
Euston ..	..	..	..
Goulburn	62	51	0·25
Wagga ..	67	52	0·85
Cape Geo.	67	59	0
Queanb'an	62	50	0·45
Urana	..	..	..
Deniliquin	66	51	0·35
Albury ..	67	50	0·55
Bodalla ..	73	45	0
Cooma ..	63	40	0·09
Eden	69	52	0·07
Gabo Isld.	67	55	0·03

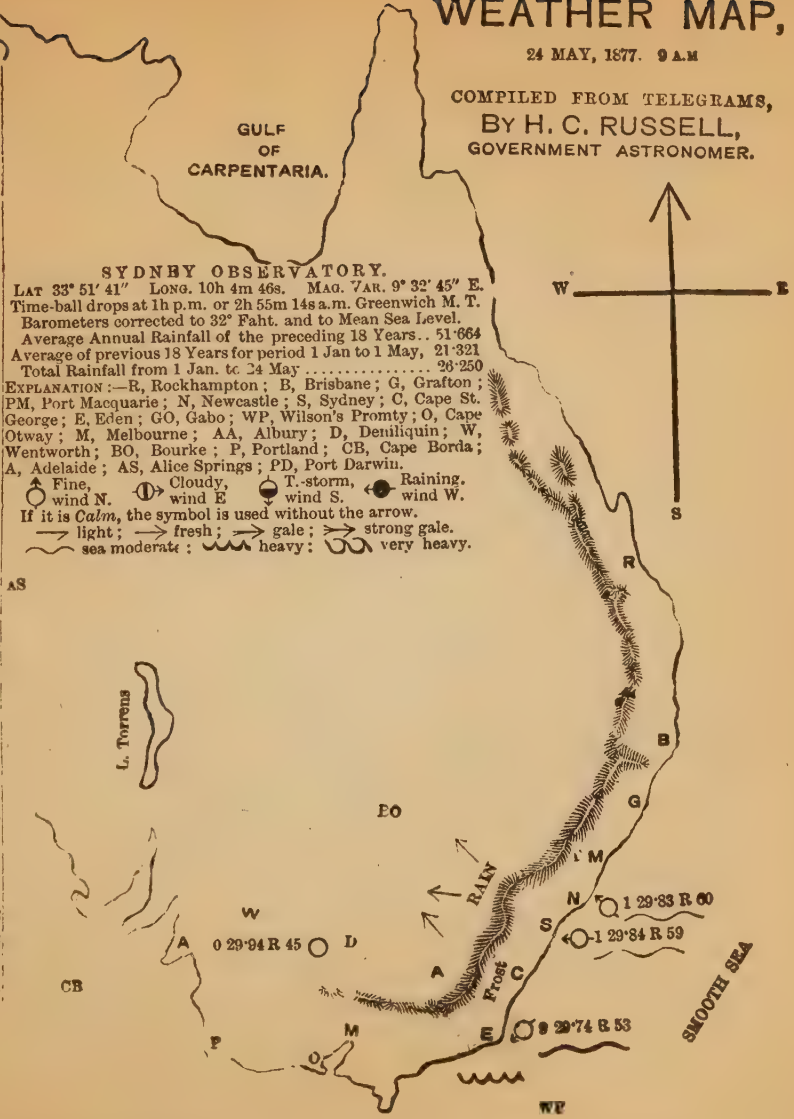


WEATHER MAP,

24 MAY, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain
Tenterfi'ld	..	..	..
Grafton ..	..	..	..
Inverell ..	..	..	..
Bourke ..	..	..	..
Narrabri ..	..	..	..
Armidale .	..	..	..
Gunnedah	..	..	..
Tamworth	..	..	..
P. Macqrie	..	..	..
Murr'undi	..	..	..
Cassilis ..	..	..	..
Mus'brook	..	..	..
Dubbo ..	..	..	..
Maitland..	..	..	..
Newcastle	73	45	0
Orange ..	58	44	0·57
Bathurst..	59	45	0·12
MtVictoria	57	41	0·08
Forbes ..	64	51	0·20
SYDNEY ..	72	58	0
Wentw'th.	62	45	0·10
Young ..	60	43	0·69
Woll'gong	61	50	0
Euston ..	57	45	0·50
Goulburn	..	..	..
Wagga ..	64	46	0·53
Cape Geo.	..	..	..
Queanb'an	53	45	0·36
Urana....	..	..	..
Deniliquin	60	41	0
Albury ..	..	..	..
Bodalla ..	70	32	0·52
Cooma ..	52	32	0·42
Eden . ..	68	48	0·27
Gabo Isld.	61	48	0·43



SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 32′ 45″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years.. 51·664
Average of previous 18 Years for period 1 Jan to 1 May, 21·321
Total Rainfall from 1 Jan. to 24 May ..... 26·250

EXPLANATION :—R, Rockhampton ; B, Brisbane ; G, Grafton ; PM, Port Macquarie ; N, Newcastle ; S, Sydney ; C, Cape St. George ; E, Eden ; GO, Gabo ; WP, Wilson's Promty ; O, Cape Otway ; M, Melbourne ; AA, Albury ; D, Deniliquin ; W, Wentworth ; BO, Bourke ; P, Portland ; CB, Cape Borda ; A, Adelaide ; AS, Alice Springs ; PD, Port Darwin.

Fine, wind N. Cloudy, wind E T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow.

light ; fresh ; gale ; strong gale.

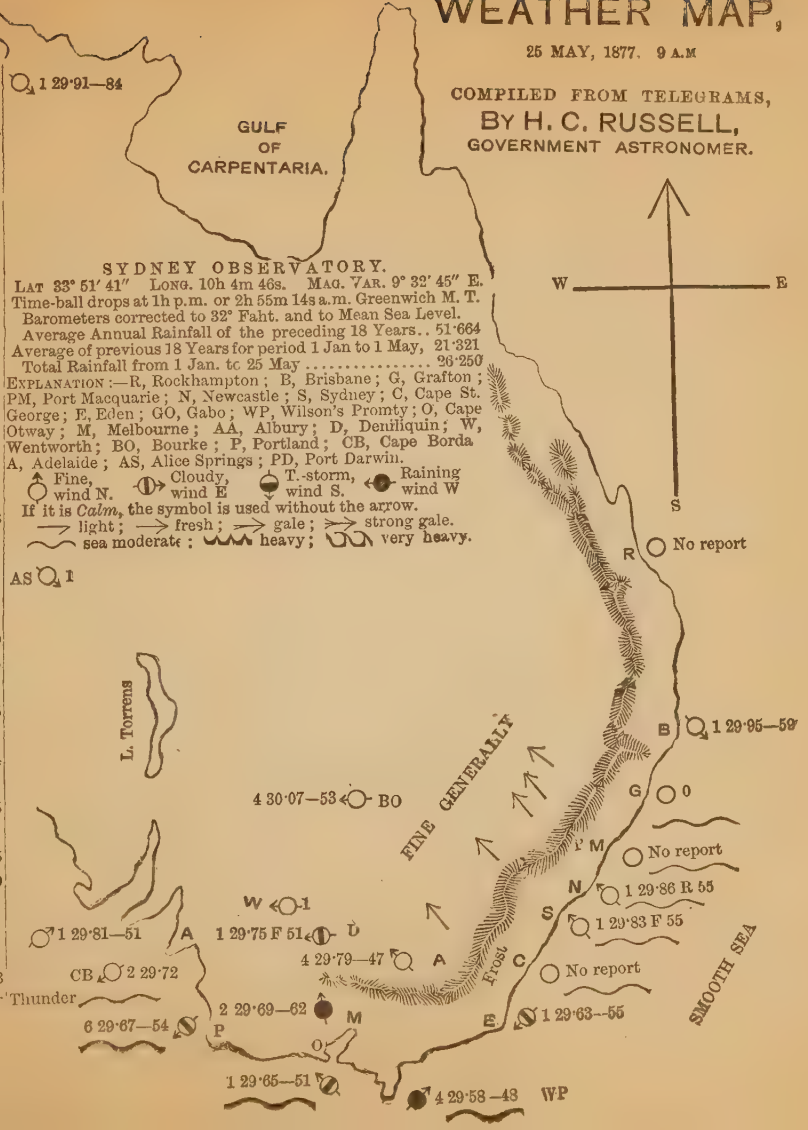
sea moderate ; heavy ; very heavy.

WEATHER MAP,

25 MAY, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain
Tenterfi'ld	61	35	0
Grafton ..	87	39	0
Inverell ..	63	32	0
Bourke ..	72	48	0
Narrabri ..	82	40	0
Armidale .	60	40	0
Gunnedah	82	37	0
Tamworth	62	44	0
P. Macqrie	..	..	..
Murr'undi	63	46	0
Cassilis ..	68	37	0
Mus'brook	68	46	0
Dubbo ..	69	45	0
Maitland..	..	..	..
Newcastle	73	44	0
Orange ..	51	41	0·03
Bathurst..	57	39	0
MtVictoria	46	39	0
Forbes ..	61	45	0
SYDNEY ..	66	50	0
Wentw'th.	66	45	0·09
Young ..	56	40	0·05
Woll'gong	63	47	0
Euston ..	62	41	0·05
Goulburn	54	43	0
Wagga ..	58	45	0·14
Cape Geo.	..	..	..
Queanb'an	55	44	0 05
Urana....	..	..	..
Deniliquin	59	44	0·05
Albury ..	56	43	0·20
Bodalla ..	68	31	0
Cooma ..	62	35	0
Eden	..	..	..
Gabo Isld.	66	54	0·23



WEATHER MAP,

26 MAY, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

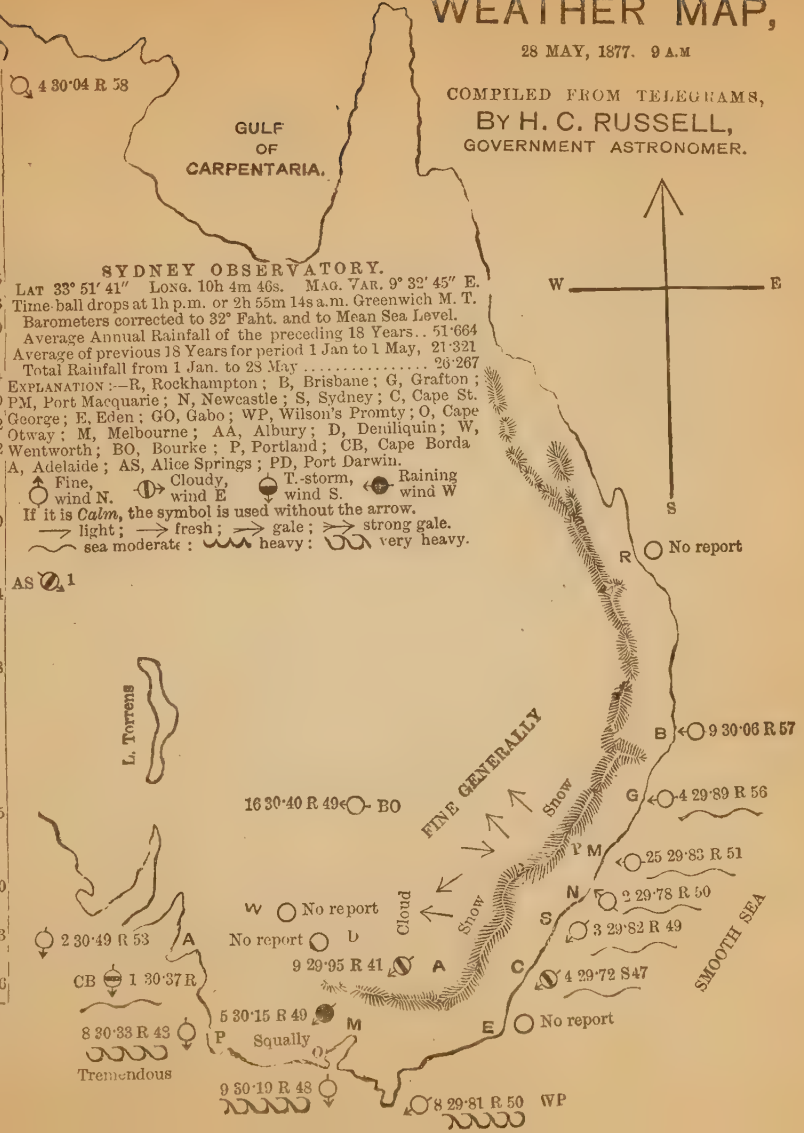
Stations.	Max.	Min.	Rain
Tenterfi'ld	61	40	0
Grafton ..	81	39	0
Inverell ..	63	32	0
Bourke ..	69	49	0
Narrabri ..	82	42	0
Armidale .	59	44	0
Gunnedah	82	38	0
Tamworth	66	41	0·08
P. Macqrie	70	42	0
Murr'undi	67	43	0
Cassilis ..	46	42	0·16
Mus'brook	71	43	0·09
Dubbo ..	69	44	0·29
Maitland..	63	57	0·15
Newcastle	72	41	0
Orange ..	50	38	0·41
Bathurst..	61	35	0·25
MtVictoria	55	36	0·20
Forbes ..	64	49	0
SYDNEY ..	68	51	0·02
Wentw'th.	66	44	0
Young ..	58	35	0
Woll'gong	64	50	0
Euston ..	61	35	0
Goulburn	58	38	0
Wagga ..	59	39	0
Cape Geo.	64	50	0
Queanb'an	56	34	0 03
Urana....	..	..	..
Deniliquin	62	39	0
Albury ..	58	34	0·05
Bodalla ..	..	..	..
Cooma ..	61	25	0
Eden	56	46	0
Gabo Isld.	55	48	0

WEATHER MAP,

28 MAY, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Max.	Min.	Rain
Tenterfi'ld	56	39	0
Grafton ..	72	44	0
Inverell ..	59	37	0·20
Bourke ..	63	41	0
Narrabri ..	62	39	0
Armidale .	65	20	0·05
Gunnedah	64	41	0·03
Tamworth	59	38	0·10
P. Macqrie	68	47	0
Murr'undi	66	40	0·24
Cassilis ..	59	39	0·20
Mus'brook	62	41	0·32
Dubbo ..	66	41	0·12
Maitland ..	65	53	0
Newcastle	70	36	0
Orange ..	49	30	0·70
Bathurst ..	..	..	..
Mt Victoria	..	..	..
Forbes ..	55	34	0·14
SYDNEY ..	62	47	0
Wentw'th.	..	..	..
Young ..	55	31	0·18
Woll'gong	61	45	0
Euston ..	..	..	..
Goulburn	54	35	0
Wagga ..	..	..	..
Cape Geo.	58	44	0
Queanb'an	57	35	0·05
Urana	..	..	..
Deniliquin	..	..	.
Albury ..	57	36	0·20
Bodalla ..	..	..	..
Cooma ..	55	28	0·13
Eden	..	..	..
Cabo Isld.	57	42	1·26



WEATHER MAP.

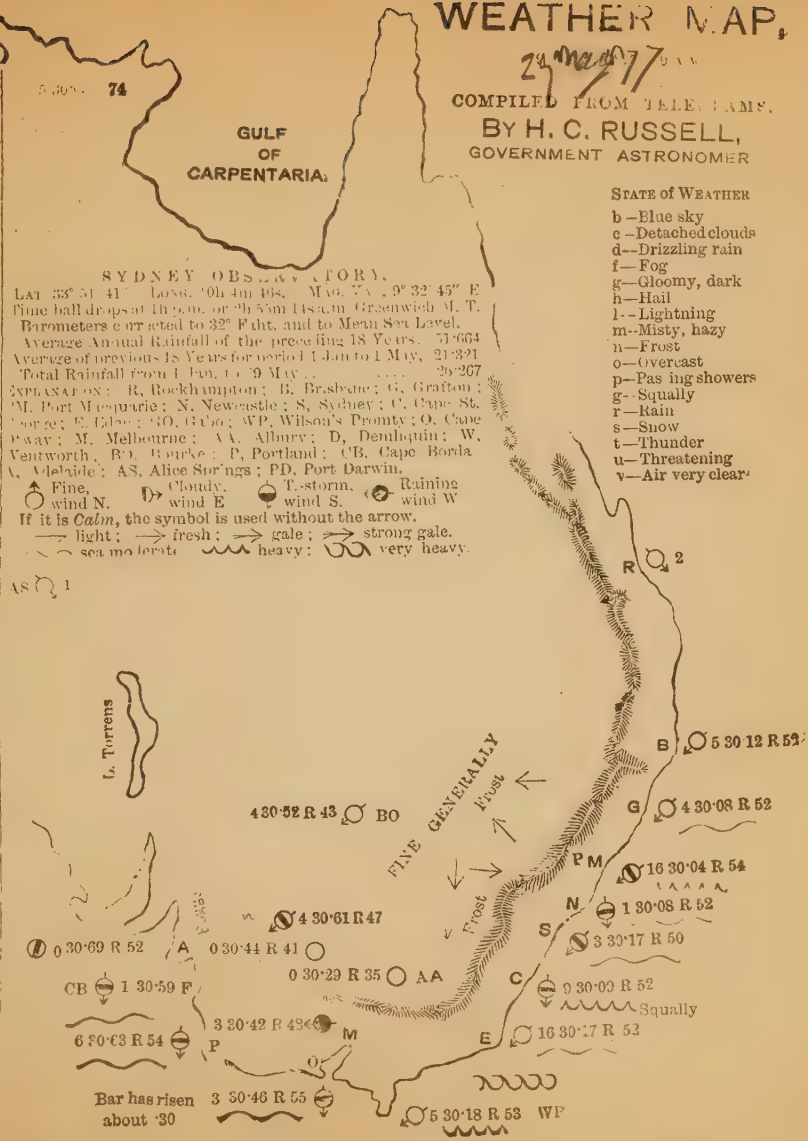
29 March 1877

COMPILED FROM TELEGRAMS.

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER

Stations.	Weather	Max.	Min.	Rain
Tenter'fld	b 4[illegible]	[illegible]		
Grafton ..	c 77 [illegible]	[illegible]		[illegible]
Inverell ..	b 51 [illegible]	[illegible]		[illegible]
Bourke ..	v 5[illegible]	[illegible]	[illegible]	0
Narrabri ..	b 5[illegible]	[illegible]	[illegible]	0
Armidale .	g 77 [illegible]	[illegible]	[illegible]	0.0[illegible]
Gunnedah	b 61	31		[illegible]
Tamworth	n 51	28		0
P. Macqrie	c 5[illegible]	4[illegible]		0
Murr'undi	c 66	44		0
Cassilis ..	b 47	33		0
Mus'brook	o 57	34		0
Dubbo ..	b 6[illegible]	42		0
Maitland ..	o [illegible]	50		0
Newcastle	o 71	37		0
Orange ..	c 61	31		9 0[illegible]
Bathurst ..	c 43	35		0
Mt Victoria	b 46	2[illegible]		0·04
Forbes ..	..	..	..	..
SYDNEY ..	o 53	47		0
Wentw'th.	c 64	39		0
Young ..	n 46	28		0
Woll'gong	c 61	50		0
Euston ..	..	..	..	..
Goulburn	n 43	34		0·06
Wagga ..	b 51	45		0
Cape Geo	c 56	51		0
Queanb'an	n 52	31		0
Urana....	..	..	..	0
Deniliquin	b 53	35		..
Albury ..	b 56	30		0
Bodalla ..	..	..	..	0
Cooma ..	n 53	28		0·03
Eden	c 56	47		0·04
Cabo Isld.	p 55	47		0·17

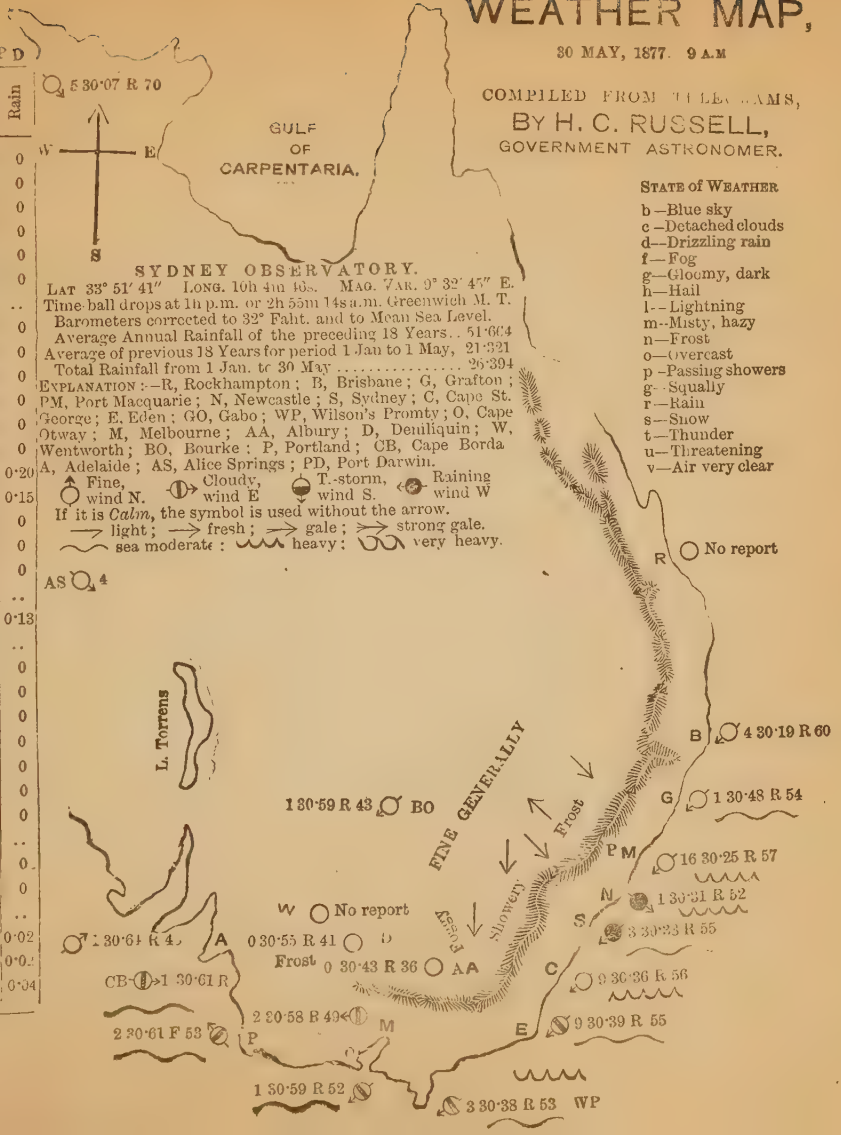


WEATHER MAP,

30 MAY, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max	Min.	Rain
Tenterfi'ld	b	52	29	0
Grafton ..	b	66	50	0
Inverell ..	b	54	50	0
Bourke ..	b	57	31	0
Narrabri ..	n	61	32	0
Armidale .	b	59	35	0
Gunnedah	..	..	..	..
Tamworth	n	51	28	0
P. Macqrie	b	60	51	0
Murr'undi	g	51	35	0
Cassilis ..	b	59	28	0
Mus'brook	c	56	35	0
Dubbo ..	b	66	32	0
Maitland..	p	63	49	0·20
Newcastle	r	69	42	0·15
Orange ..	b	44	35	0
Bathurst..	b	50	27	0
MtVictoria	n	45	33	0
Forbes ..	..	..	..	..
SYDNEY ..	r	57	50	0·13
Wentw'th.		..	..	..
Young ..	n	51	26	0
Woll'gong	b	61	50	0
Euston ..	b	54	40	0
Goulburn	b	51	33	0
Wagga ..	n	55	33	0
Cape Geo	c	58	44	0
Queanb'an	b	52	36	0
Urana....	..	..	..	..
Deniliquin	b	59	37	0
Albury ..	f	59	29	0
Bodalla .	..	..	..	..
Cooma ..	o	52	36	0·02
Eden	w	57	47	0·0[illegible]
Gabo Isld.	c	58	51	0·04



WEATHER MAP,

31 MAY, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	o	61	30	0
Grafton ..	o	66	58	0·07
Inverell ..	b	62	40	0
Bourke ..	b	61	42	0
Narrabri ..	b	64	39	0
Armidale .	c	57	42	0·25
Gunnedah	b	62	35	0
Tamworth	b	63	32	0
P. Macqrie	g	65	54	1·11
Murr'undi	c	51	41	0
Cassilis ..	b	59	34	0
Mus'brook	o	60	42	0·03
Dubbo ..	n	68	36	0
Maitland..	p	63	55	0·40
Newcastle	o	61	39	1·26
Orange ..	n	53	33	0
Bathurst..	n	62	30	0
MtVictoria	c	52	38	0
Forbes ..	..	..	..	..
SYDNEY ..	d	59	51	0·62
Wentw'th.	c	66	35	0
Young ..	b	58	26	0
Woll'gong	b	63	53	0
Euston ..	b	62	35	0
Goulburn	b	55	34	0
Wagga ..	n	56	35	0
Cape Geo	..	59	0	0
Queanb'an	c	57	34	0
Urana....	..	..	..	..
Deniliquin	b	61	34	0
Albury ..	b	63	30	0
Bodalla ..	..	..	..	..
Cooma ..	n	52	31	0
Eden	c	60	49	0
Gabo Isld.	c	58	51	0·10

WEATHER MAP,

1 JUNE, 1877 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain
Tenterfi'ld	c	53	35	0
Grafton ..	c	67	48	0
Inverell ..	b	64	34	0
Bourke ..	b	70	43	0
Narrabri..	b	64	40	0
Armidale.	g	58	41	0
Gunnedah	b	72	40	0
Tamworth	b	67	36	0
P. Macqrie	c	65	52	0
Murr'undi	c	56	44	0
Cassilis ..	b	55	40	0
Mus'brook	c	64	51	0·01
Dubbo ..	g	69	40	0
Maitland..	..	..	..	..
Newcastle	c	66	43	0·22
Orange ..	f	56	34	0
Bathurst..	f	65	34	0
MtVictoria	b	57	37	0
Forbes ..	..	..	..	..
SYDNEY ..	c	60	50	0·03
Wentw'th.	o	63	38	0
Young ..	b	60	29	0
Woll'gong	b	69	50	0
Euston ..	b	61	30	0
Goulburn	n	61	31	0
Wagga ..	f	58	38	0
Cape Geo.	c	58	51	0
Queanb'an	b	59	32	0
Urana....	..	..	..	..
Deniliquin	c	74	61	0
Albury ..	b	63	32	0
Bodalla ..	..	..	..	..
Cooma ..	n	60	24	0
Eden	b	60	47	0
Gabo Isld.	c	56	50	0

WEATHER MAP,

2 JUNE, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	c	52	37	0
Grafton ..	o	81	50	0
Inverell ..	b	66	33	0
Bourke ..	b	70	44	0
Narrabri ..	b	69	43	0
Armidale .	g	53	38	0
Gunnedah	..	..	..	..
Tamworth	b	67	35	0
P. Macqrie	o	66	52	0
Murr'undi	f	60	41	0
Cassilis ..	b	60	35	0
Mus'brook	f	68	43	0
Dubbo ..	b	64	35	0
Maitland..	f	62	53	0·04
Newcastle	f	62	45	0
Orange ..	n	55	33	0
Bathurst..	f	53	29	0
MtVictoria	b	50	34	0
Forbes ..	b	62	40	0
SYDNEY ..	b	64	50	0
Wentw'th.	..	..	..	..
Young ..	n	43	34	0
Woll'gong	l	71	55	0
Euston ..	b	64	30	0
Goulburn	f	63	31	0
Wagga ..	n	54	32	0
Cape Geo.	c	60	53	0
Queanb'an	o	57	33	0
Urana....	..	..	..	..
Deniliquin	n	56	31	0
Albury ..	f	58	32	0
Bodalla ..	..	..	..	..
Cooma ..	n	60	30	0
Eden	b	59	45	0
Gabo Isld.	b	56	49	0

PD

WEATHER MAP,

4 JUNE, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

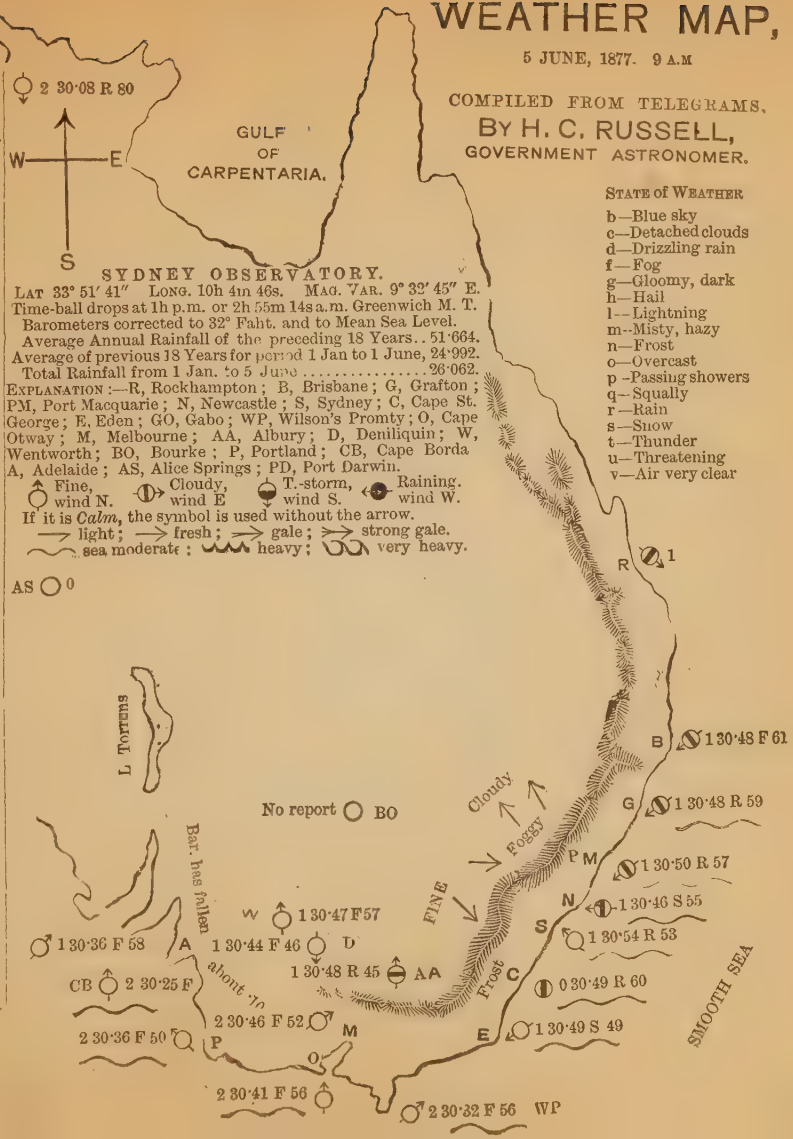
Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	c	61	45	0
Grafton ..	c	64	59	0
Inverell ..	c	67	37	0
Bourke ..	c	74	42	0
Narrabri ..	c	71	43	0
Armidale .	c	61	42	0
Gunnedah	..	..	..	..
Tamworth	c	69	45	0
P. Macqrie	c	70	53	0
Murr'undi	b	61	41	0
Cassilis ..	f	48	36	0
Mus'brook	c	64	41	0
Dubbo ..	b	63	41	0
Maitland..	f	60	45	0·05
Newcastle	f	69	37	0
Orange ..	b	56	34	0
Bathurst..	..	..	..	..
MtVictoria	b	56	39	0
Forbes ..	b	64	42	0
SYDNEY ..	b	64	48	0·01
Wentw'th.	c	67	42	..
Young ..	n	56	33	0
Woll'gong	..	..	..	..
Euston ..	b	61	29	0
Goulburn	n	63	32	0
Wagga ..	b	58	32	0
Cape Geo.	c	62	52	0
Queanb'an	b	53	32	0
Urana....	..	..	..	..
Deniliquin	b	56	45	0
Albury ..	b	62	31	0
Bodalla ..	b	68	34	0
Cooma ..	f	56	26	0
Eden	b	60	45	0
Gabo Isld.	b	58	49	0

WEATHER MAP,

5 JUNE, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	c	61	50	0
Grafton ..	o	70	53	0
Inverell ..	o	67	43	0
Bourke ..	..	..	..	..
Narrabri ..	o	71	42	0
Armidale .	c	57	43	0
Gunnedah	..	..	..	..
Tamworth	c	70	46	0
P. Macqrie	o	71	54	0
Murr'undi	b	63	48	0
Cassilis ..	f	63	39	0
Mus'brook	f	68	45	0
Dubbo ..	c	65	42	0
Maitland..	f	61	53	0
Newcastle	c	68	38	0
Orange ..	c	57	38	0
Bathurst..	c	65	31	0
MtVictoria	o	58	46	0
Forbes ..	..	..	..	..
SYDNEY ..	b	64	51	0
Wentw'th.	b	73	39	0
Young ..	b	70	37	0
Woll'gong	b	66	50	0
Euston ..	c	69	43	0
Goulburn	c	65	37	0
Wagga ..	b	61	42	0
Cape Geo.	c	61	56	0
Queanb'an	o	61	35	0
Urana....	..	..	..	..
Deniliquin	b	65	43	0
Albury ..	o	64	35	0
Bodalla ..	b	69	49	0
Cooma ..	n	58	25	0
Eden	b	60	45	0
Gabo Isld.	b	57	49	0



WEATHER MAP,

6 JUNE, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	W'ther	Max.	Min.	Rain
Tenterfi'ld	c	59	52	0
Grafton ..	c	73	47	0
Inverell ..	b	68	40	0
Bourke ..	b	77	51	0·07
Narrabri..	b	71	46	0
Armidale .	m	56	39	0
Gunnedah	b	75	41	0
Tamworth	b	70	42	0
P. Macqrie	b	70	52	0
Murr'undi	n	64	44	0
Cassilis ..	f	64	38	0
Mus'brook	b	69	46	0
Dubbo ..	b	63	46	0
Maitland..	b	65	55	0
Newcastle	b	66	37	0
Orange ..	b	56	39	0·11
Bathurst..	f	65	39	0
MtVictoria	c	59	44	0
Forbes ..	b	61	41	0
SYDNEY ..	o	65	53	0·01
Wentw'th.	c	79	47	0
Young ..	n	65	36	0
Woll'gong	b	61	50	0
Euston ..	b	73	43	0
Goulburn	f	66	39	0·03
Wagga ..	g	62	42	0
Cape Geo.	b	63	55	0
Queanb'an	c	64	40	0·05
Urana....	..	..	..	..
Deniliquin	o	66	44	0
Albury ..	m	56	40	0·05
Bodalla ..	pf	73	41	0
Cooma ..	f	64	27	0
Eden	b	60	47	0
Gabo Isld.	b	58	49	0

PD

WEATHER MAP,

7 JUNE, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

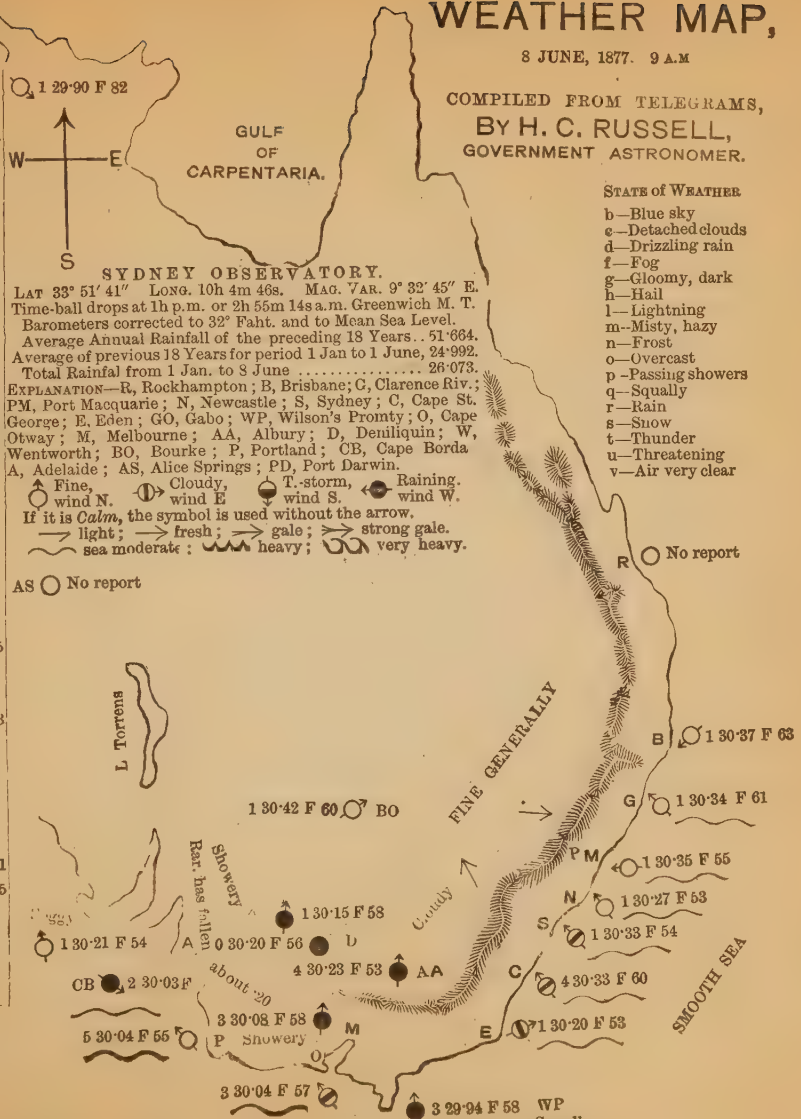
Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	b	66	45	0
Grafton ..	b	69	58	0·04
Inverell ..	b	69	38	0
Bourke ..	b	77	51	0·15
Narrabri ..	b	74	47	0
Armidale .	c	60	40	0
Gunnedah	b	80	44	0
Tamworth	b	71	40	0
P. Macqrie	b	69	52	0
Murr'undi	b	64	44	0
Cassilis ..	b	68	36	0
Mus'brook	b	54	39	0
Dubbo ..	b	68	45	0
Maitland ..	f	56	49	0
Newcastle	n	70	38	0
Orange ..	b	58	36	0
Bathurst ..	..	..	..	..
MtVictoria	b	59	40	0
Forbes ..	..	..	..	..
SYDNEY ..	b	67	53	0
Wentw'th.	c	78	54	0
Young ..	n	69	35	0
Woll'gong	b	66	50	0
Euston ..	c	74	48	0
Goulburn	b	64	35	0
Wagga ..	b	58	41	0
Cape Geo.	b	65	53	0
Queanb'an	b	60	38	0
Urana	..	..	..	..
Deniliquin	b	65	50	0
Albury ..	f	55	41	0·20
Bodalla ..	b	73	38	0
Cooma ..	n	53	29	0
Eden	b	64	47	0
Gabo Isld.	b	61	52	0

WEATHER MAP,

8 JUNE, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	b	64	45	0
Grafton ..	o	69	51	0
Inverell ..	b	68	39	0
Bourke ..	b	78	53	0
Narrabri ..	b	75	45	0
Armidale .	b	59	38	0
Gunnedah	b	60	43	0
Tamworth	b	71	40	0
P. Macqrie	b	69	51	0
Murr'undi	b	64	43	0
Cassilis ..	c	63	40	0
Mus'brook	b	69	41	0
Dubbo ..	c	68	44	0
Maitland..	c	63	50	0
Newcastle	b	69	37	0
Orange ..	c	58	38	0
Bathurst..	c	65	34	..
Mt Victoria	b	59	34	0
Forbes ..	..	..	..	..
SYDNEY ..	c	65	52	0
Wentw'th.	p	76	56	0·25
Young ..	c	67	39	0
Woll'gong	b	71	55	0
Euston ..	d	74	55	0·23
Goulburn	c	67	39	0
Wagga ..	b	65	48	0
Cape Geo.	c	66	56	0
Queanb'an	c	64	39	0
Urana....	..	..	..	..
Deniliquin	d	70	52	0·11
Albury ..	d	67	44	0·25
Bodalla ..	o	75	40	0
Cooma ..	c	66	36	0
Eden	o	65	49	0
Gabo Isld.	c	60	52	0

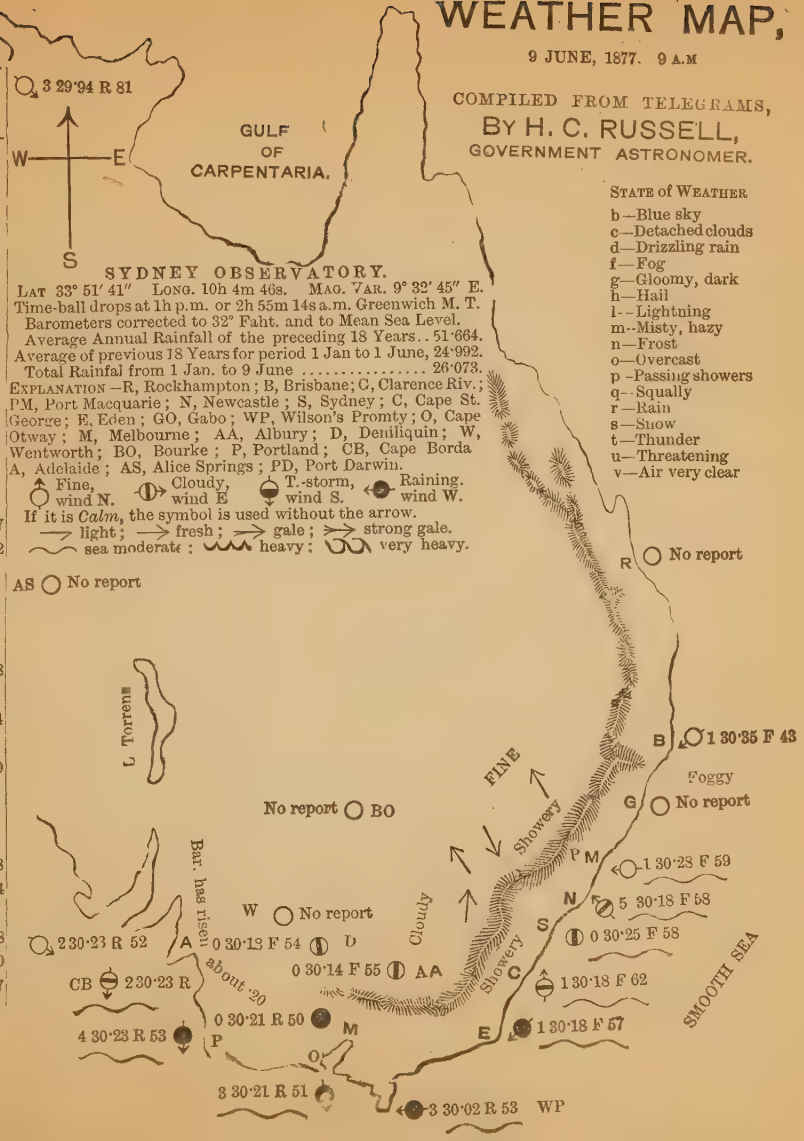


WEATHER MAP,

9 JUNE, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	b	69	45	0
Grafton ..	o	82	53	0
Inverell ..	b	69	45	0
Bourke ..	..	..	..	..
Narrabri ..	c	76	46	0
Armidale .	c	58	37	0
Gunnedah	c	84	48	0
Tamworth	c	71	43	0
P. Macqrie	b	70	53	0
Murr'undi	g	66	49	0
Cassilis ..	b	69	44	0
Mus'brook	c	73	45	0
Dubbo ..	c	68	47	0
Maitland..	c	63	52	0
Newcastle	c	70	42	0
Orange ..	u	58	44	0·07
Bathurst..	p	61	51	0·12
Mt Victoria	o	61	49	0
Forbes ..	..	..	..	..
SYDNEY ..	o	69	54	0
Wentw'th.	..	..	..	..
Young ..	d	67	46	0·18
Woll'gong	b	65	50	0
Euston ..	u	63	51	0·04
Goulburn	c	67	44	0
Wagga ..	p	63	54	1·50
Cape Geo.	c	68	58	0
Queanb'an	..	..	..	..
Urana....	..	..	..	..
Deniliquin	o	62	52	0·48
Albury ..	o	61	50	0·84
Bodalla ..	o	66	44	0
Cooma ..	p	66	41	0·08
Eden	p	62	50	0·10
Gabo Isld.	c	62	56	0·17

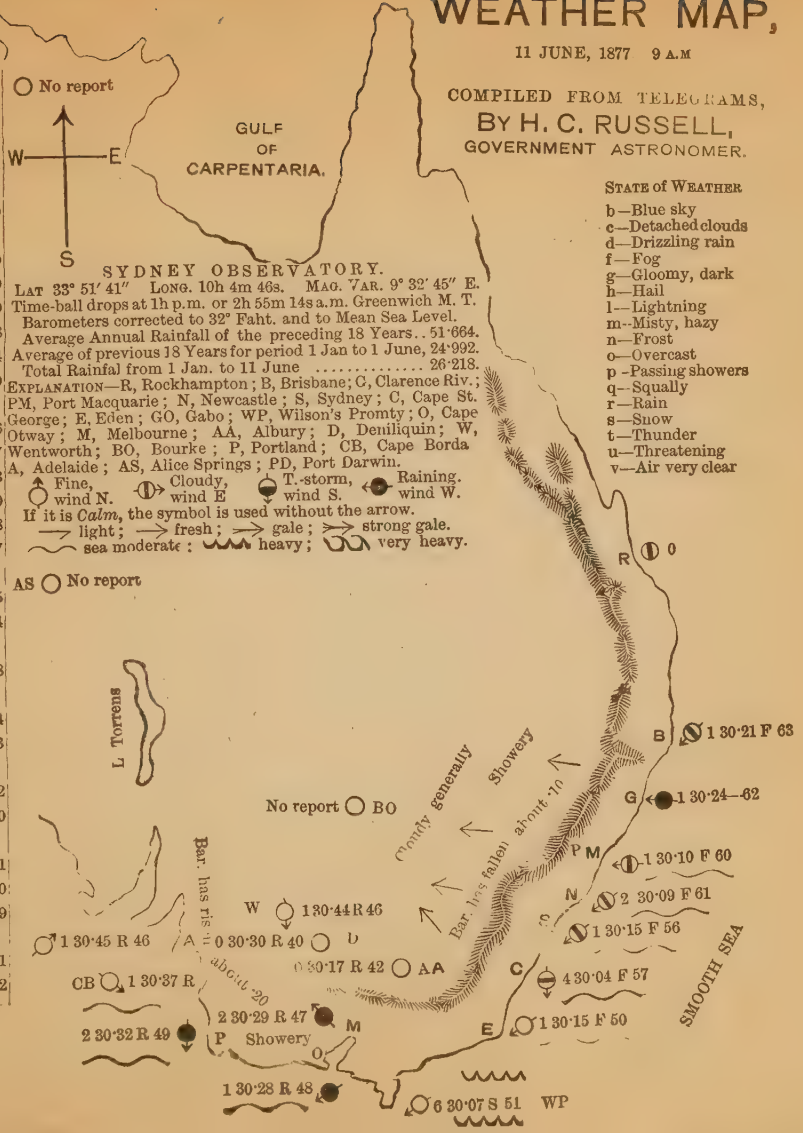


WEATHER MAP,

11 JUNE, 1877 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	r	69	50	0·01
Grafton ..	r	94	42	0·22
Inverell ..	o	64	39	0·70
Bourke ..	..	..	..	..
Narrabri ..	p	73	56	0·90
Armidale .	c	61	49	0·10
Gunnedah	p	71	51	1·00
Tamworth	r	71	54	0·98
P. Macqrie	g	72	59	0·14
Murr'undi	c	66	50	0·50
Cassilis ..	..	..	..	..
Mus'brook	g	72	48	0·36
Dubbo ..	g	62	44	1·37
Maitland..	p	62	51	0·23
Newcastle	o	72	41	0·30
Orange ..	o	56	43	0·68
Bathurst..	o	59	47	0·57
MtVictoria	f	57	43	0
Forbes ..	p	62	50	1·25
SYDNEY ..	p	65	57	0·14
Wentw'th.	b	58	42	0
Young ..	o	59	41	0·08
Woll'gong	g	61	53	0
Euston ..	u	63	51	0·04
Goulburn	o	64	44	0·43
Wagga ..	o	59	54	0
Cape Geo.	c	61	53	0·82
Queanb'an	o	60	45	1·50
Urana....	..	..	..	..
Deniliquin	b	58	37	0·31
Albury ..	b	57	37	1·00
Bodalla ..	p	57	46	0·39
Cooma ..	g	49	36	0
Eden	c	58	47	0·01
Gabo Isld.	c	59	49	1·22



WEATHER MAP,

12 JUNE, 1877 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	b	57·45		0·22
Grafton ..	b	61·41		0·25
Inverell ..	b	61·36		0·20
Bourke ..	b	58·40		0
Narrabri..	b	58·40		0
Armidale .	c	55·39		0
Gunnedah	b	65·35		0
Tamworth	b	61·37		0·01
P. Macqrie	b	64·46		0
Murr'undi	b	66·42		0
Cassilis ..	b	57·37		0
Mus'brook	b	64·41		0
Dubbo ..	g	68·35		0
Maitland..	b	63·47		0·26
Newcastle	b	71·38		0
Orange ..	c	48·36		0
Bathurst..	o	43·35		0
MtVictoria	b	51·31		0
Forbes ..	b	59·44		0
SYDNEY ..	b	57·46		0·29
Wentw'th.	b	58·39		0
Young ..	n	52·33		0
Woll'gong	b	71·55		0
Euston ..	d	56·40		0
Goulburn	b	51·37		0·04
Wagga ..	o	56·38		0
Cape Geo.	c	57·45		0
Queanb'an	f	56·34		0
Urana....	..	..	..	..
Deniliquin	c	56·38		0
Albury ..	o	58·33		0
Bodalla ..	n	60·27		0
Cooma ..	n	54·23		0
Eden	b	57·44		0
Gabo Isld.	b	55·47		0

PD

No report

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 32′ 45″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years.. 51·664.
Average of previous 18 Years for period 1 Jan to 1 June, 24·992.
Total Rainfal from 1 Jan. to 12 June ..... 26·506.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George; E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate: heavy: very heavy.

AS No report

R No report

L Torrens

1 30·50—43 BO

FINE GENERALLY

Foggy

Showery

Squally

Squally

Bar. has fallen about ·30

B 2 30·13 F 55

G 4 30·03 F 51

PM 1 30·11 R 52

N 2 30·11 R 51

S 1 30·16 R 48

C 1 30·15 R 48

E 1 30·08 F 49

SMOOTH SEA

W 4 30·33 F 45

D 1 30·25 F 44

AA 4 30·23 R 41

A 5 30·30 F 51

CB 7 30·28 F

6 30·09 F 48

P

M 3 30·05 F 46

Q 2 30·01 F 49

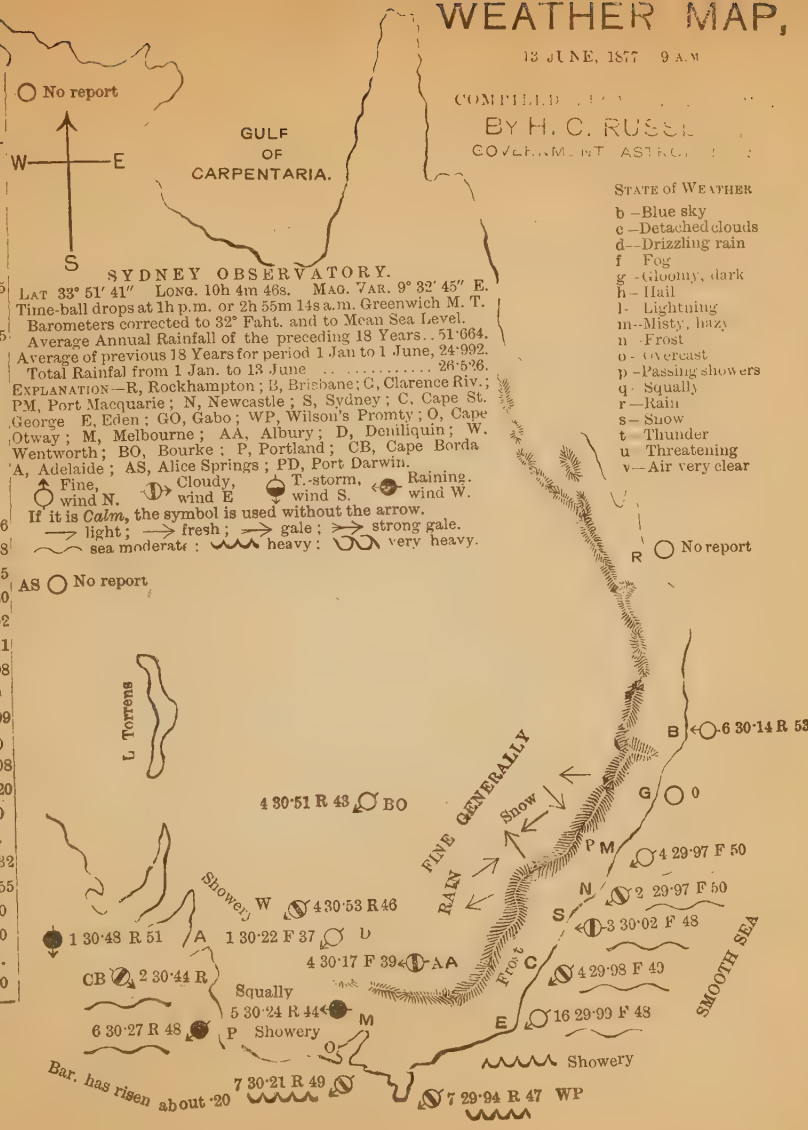
WP 7 29·82 F 49

WEATHER MAP,

13 JUNE, 1877 9 A.M.

COMPILED [illegible]
BY H. C. RUSSEL
GOVERNMENT ASTRONOMER

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	c	53	38	0
Grafton ..	b	73	40	0
Inverell ..	c	53	32	0
Bourke ..	b	57	41	0
Narrabri ..	c	58	39	0
Armidale .	s	53	37	0·05
Gunnedah	c	67	41	0
Tamworth	c	57	40	0·05
P. Macqrie	b	61	41	0
Murr'undi	c	66	46	0
Cassilis ..	b	53	40	0
Mus'brook	b	59	43	0
Dubbo ..	c	65	44	0
Maitland..	b	55	47	0
Newcastle	c	66	37	0
Orange ..	o	45	31	0·36
Bathurst..	o	58	33	0·08
MtVictoria	c	44	29	0·25
Forbes ..	c	56	41	0·20
SYDNEY ..	o	58	47	0·02
Wentw'th.	c	58	38	0·11
Young ..	r	48	31	0·08
Woll'gong	g	61	48	0
Euston ..	b	54	40	0·09
Goulburn	b	47	35	0
Wagga ..	c	54	36	0·08
Cape Geo.	c	56	42	0·20
Queanb'an	b	51	35	0
Urana....	..	..	..	..
Deniliquin	b	50	36	0·32
Albury ..	o	50	33	0·55
Bodalla ..	n	64	29	0
Cooma ..	..	..	..	0
Eden	c	58	44	..
Gabo Isld.	c	56	42	0

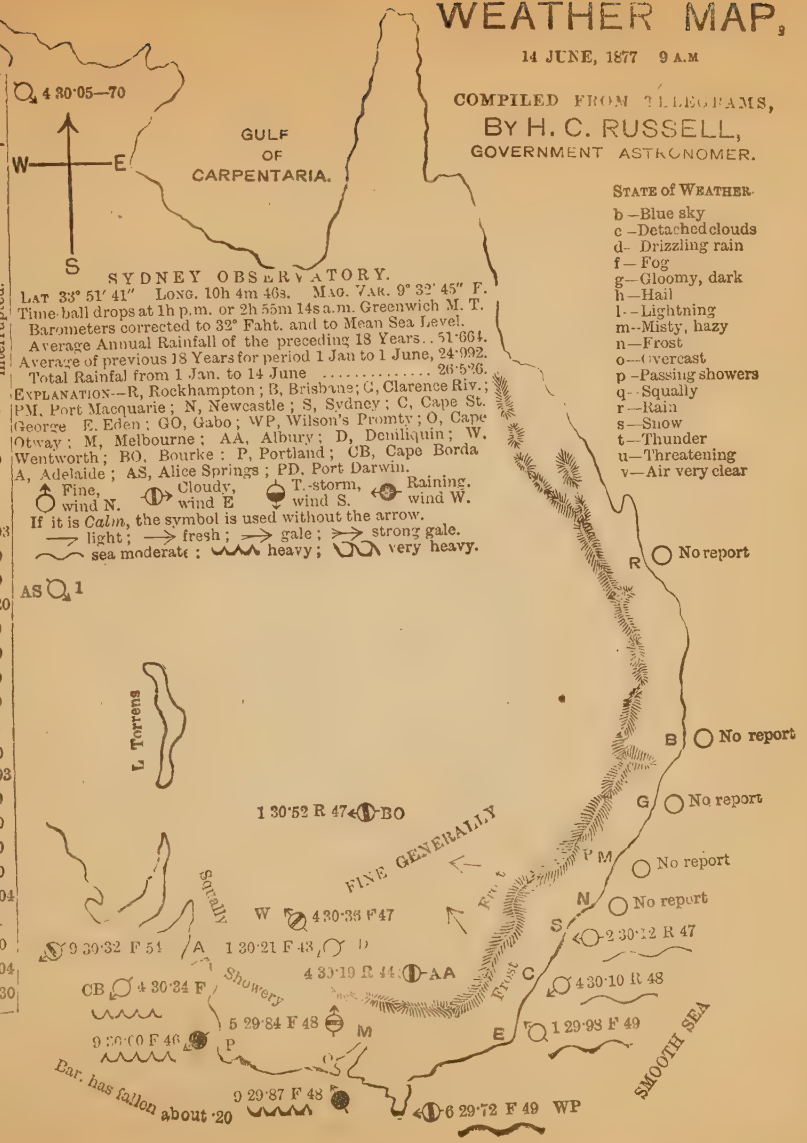


WEATHER MAP,

14 JUNE, 1877 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	..	..	..	..
Grafton ..	..	..	..	..
Inverell ..	..	..	..	..
Bourke ..	c	55	43	0
Narrabri ..	Northern Line interrupted.			
Armidale .				
Gunnedah				
Tamworth				
P. Macqrie				
Murr'undi				
Cassilis ..	b	47	31	0
Mus'brook	..	..	..	..
Dubbo ..	b	62	35	0
Maitland..	..	..	..	..
Newcastle	..	..	..	..
Orange ..	o	48	32	0·03
Bathurst..	o	41	32	0
MtVictoria	n	48	28	0
Forbes ..	c	56	41	0·20
SYDNEY ..	b	54	44	0
Wentw'th.	c	53	42	0
Young ..	o	55	41	0
Woll'gong	b	61	50	0
Euston ..	..	..	..	..
Goulburn	c	44	31	0
Wagga ..	c	50	39	0·03
Cape Geo	c	58	43	0
Queanb'an	b	49	30	0
Urana....	b	..	..	0
Deniliquin	b	52	35	0
Albury ..	o	50	36	0·04
Bodalla ..	..	..	..	..
Cooma ..	n	48	25	0
Eden	b	52	44	0·04
Cape Isld.	b	52	41	0·30

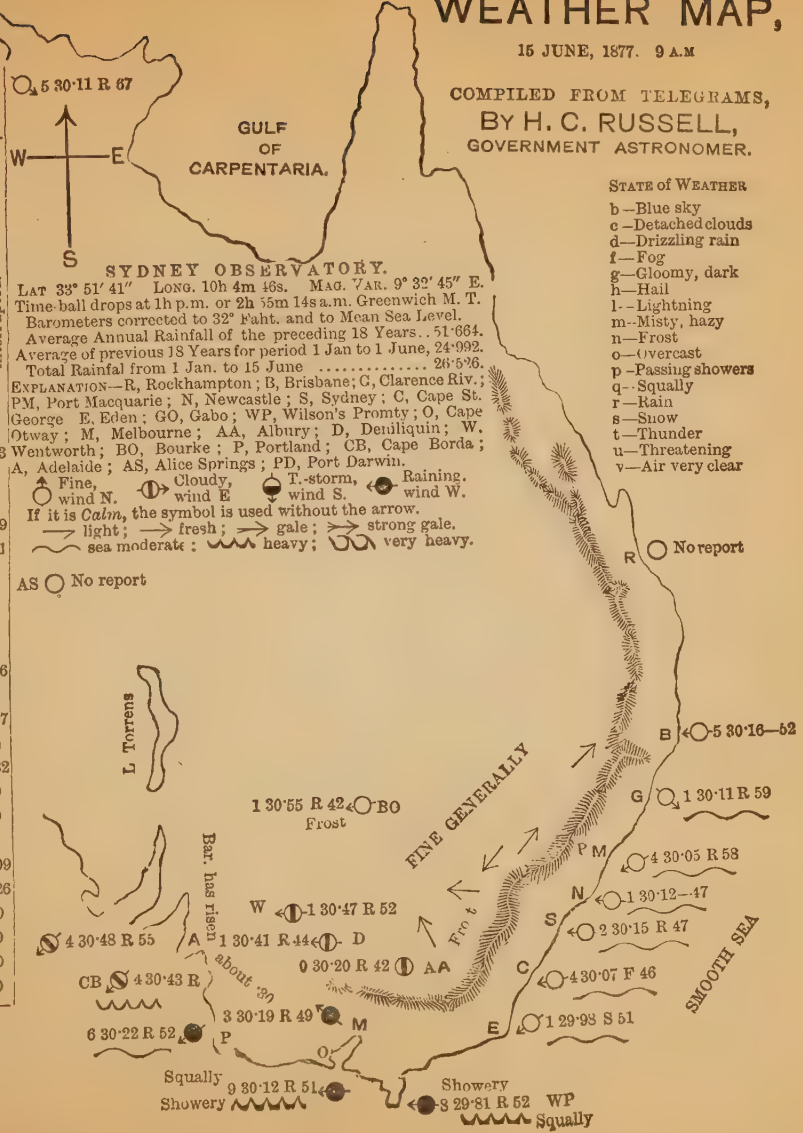


WEATHER MAP,

15 JUNE, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	..	..	..	..
Grafton ..	..	..	..	..
Inverell ..	..	..	..	..
Bourke ..	n	62	40	0
Narrabri ..	..	..	..	Northern Line interrupted.
Armidale .	..	..	..	
Gunnedah	..	..	..	
Tamworth	..	.	..	
P. Macqrie	..	..	..	
Murr'undi	..	.	..	
Cassilis ..	b	50	37	0
Mus'brook	..	..	..	..
Dubbo ..	b	63	38	0·13
Maitland ..	b	51	43	0
Newcastle	b	64	35	0
Orange ..	o	44	31	0·29
Bathurst ..	o	38	31	0·11
MtVictoria	b	40	28	0
Forbes ..	..	..	..	..
SYDNEY ..	b	57	46	0
Wentw'th.	c	58	42	0
Young ..	b	49	31	0·06
Woll'gong	b	61	50	0
Euston ..	o	56	39	0·07
Goulburn	c	45	34	0
Wagga ..	c	52	36	0·32
Cape Geo	b	53	41	0
Queanb'an	b	50	30	0
Urana....	..	..	..	..
Deniliquin	c	52	37	0·09
Albury ..	o	58	36	0·26
Bodalla ..	n	63	27	0
Cooma ..	n	54	35	0
Eden	b	56	44	0
Gabo Isld.	c	55	46	0



WEATHER MAP,

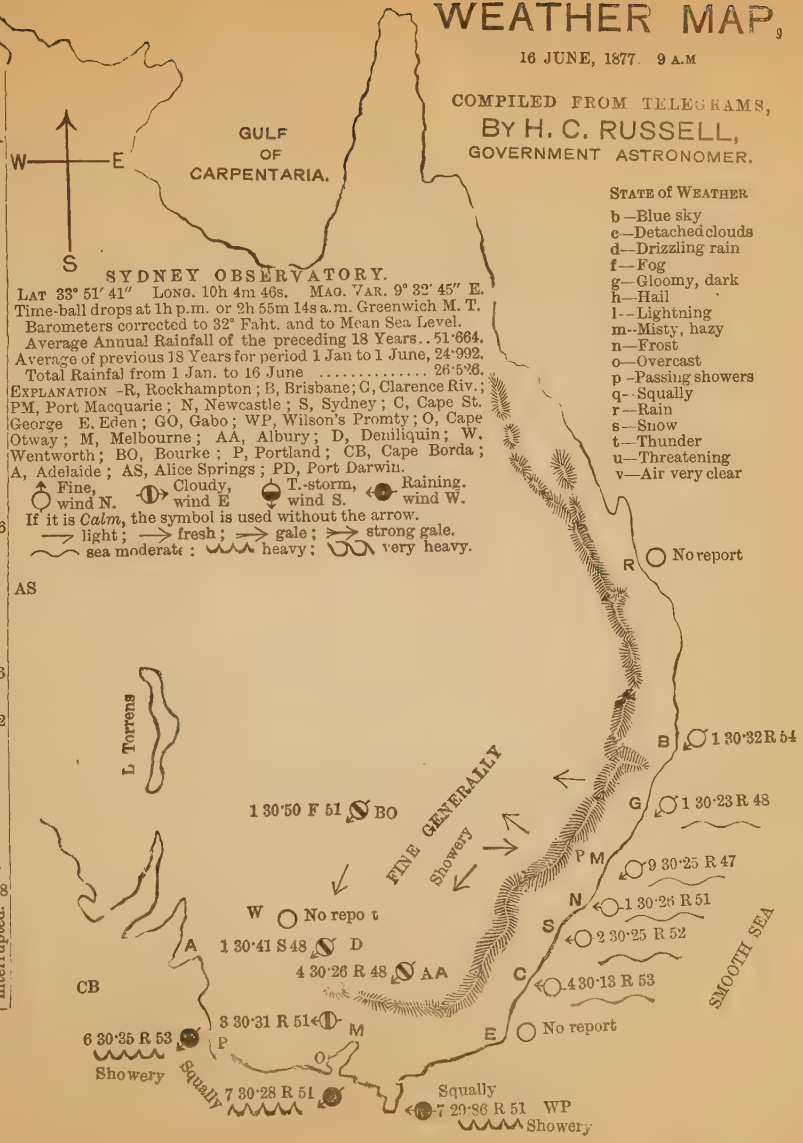
16 JUNE, 1877. 9 A.M

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	b	51	42	0
Grafton ..	b	73	36	0
Inverell ..	u	50	35	0
Bourke ..	o	56	43	0
Narrabri ..	c	56	41	0
Armidale .	c	58	36	0
Gunnedah	..	..	..	.
Tamworth	o	53	32	0
P. Macqrie	b	63	37	0
Murr'undi	u	63	38	0
Cassilis ..	o	48	40	0
Mus'brook	b	57	36	0
Dubbo ..	c	57	38	0
Maitland ..	b	54	45	0
Newcastle	b	60	36	0
Orange ..	p	42	32	0·06
Bathurst ..	u	47	35	0
Mt Victoria	..	..	..	..
Forbes ..	..	..	..	..
SYDNEY ..	b	56	47	0
Wentw'th.	..	..	..	..
Young ..	r	48	31	0·06
Woll'gong	b	66	50	0
Euston ..	c	56	46	0·02
Goulburn	..	..	..	..
Wagga ..	p	51	41	0
Cape Geo.	c	56	45	0
Queanb'an	..	..	.	..
Urana	..	..	...	..
Deniliquin	o	55	44	0
Albury ..	u	50	38	0·88
Bodalla ..	..	..	..	Line interrupted.
Cooma ..	..	..	..	
Eden		..	..	
Gabo Isld.	..	..	..	

PD

AS

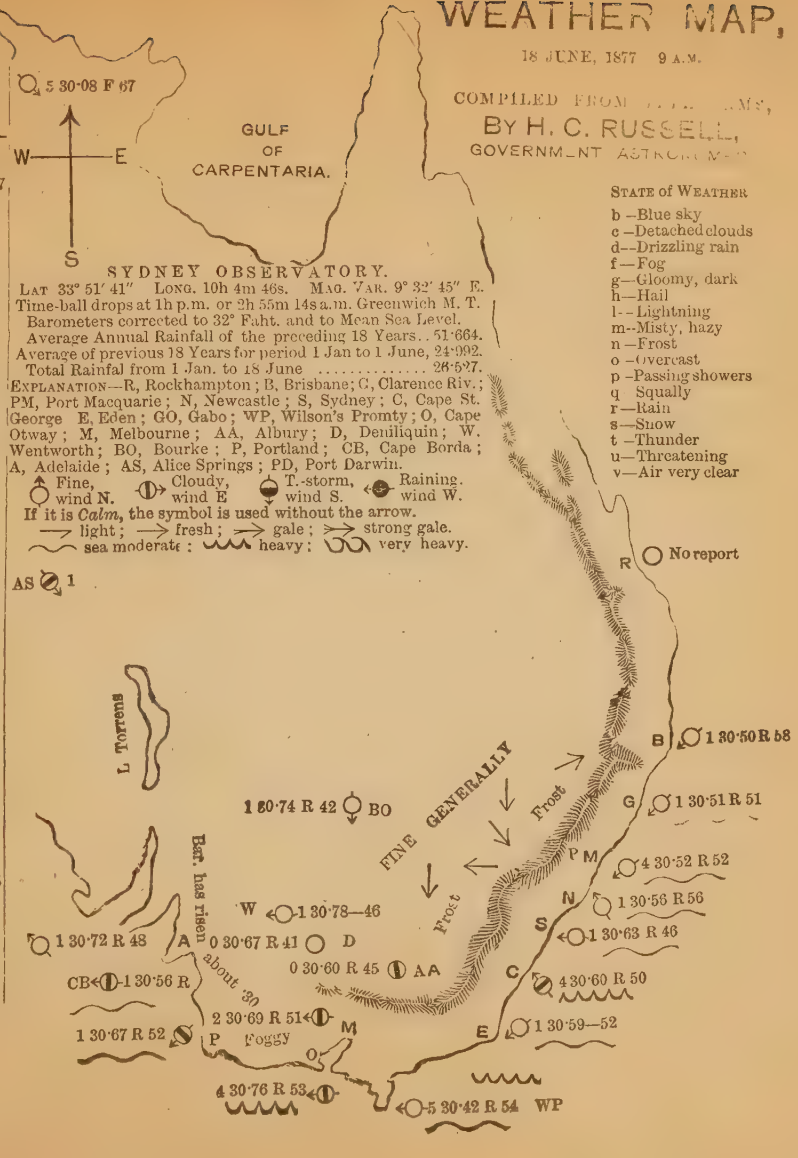


WEATHER MAP,

18 JUNE, 1877 9 A.M.

COMPILED FROM [illegible] BY H. C. RUSSELL, GOVERNMENT ASTRONOMER

Stations.	W'ther.	Max	Min.	Rain
Tenterfi'ld	b	56	44	0
Grafton ..	c	79	36	0·07
Inverell ..	b	59	31	0
Bourke ..	n	60	29	0
Narrabri ..	b	63	39	0
Armidale .	n	59	31	0
Gunnedah	..	..	..	..
Tamworth	b	62	31	0
P. Macqrie	b	66	45	0
Murr'undi	n	66	36	0
Cassilis ..	b	51	28	0
Mus'brook	n	62	28	0
Dubbo ..	b	63	41	0
Maitland..	..	..	..	..
Newcastle	b	65	42	0
Orange ..	n	50	31	0
Bathurst..	f	41	26	0
MtVictoria	b	51	29	0
Forbes ..	b	60	45	0
SYDNEY ..	b	60	44	0
Wentw'th.	n	62	36	0
Young ..	o	54	36	0
Woll'gong	b	61	48	0
Euston ..	b	60	39	0
Goulburn	..	..	..	..
Wagga ..	f	56	36	0
Cape Geo.	c	58	48	0
Queanb'an	fn	55	30	0
Urana....	..	..	..	..
Deniliquin	b	60	36	0
Albury ..	o	56	36	0·05
Bodalla ..	..	..	..	..
Cooma ..	n	60	20	0
Eden	b	61	48	0
Gabo Isld.	c	57	41	0

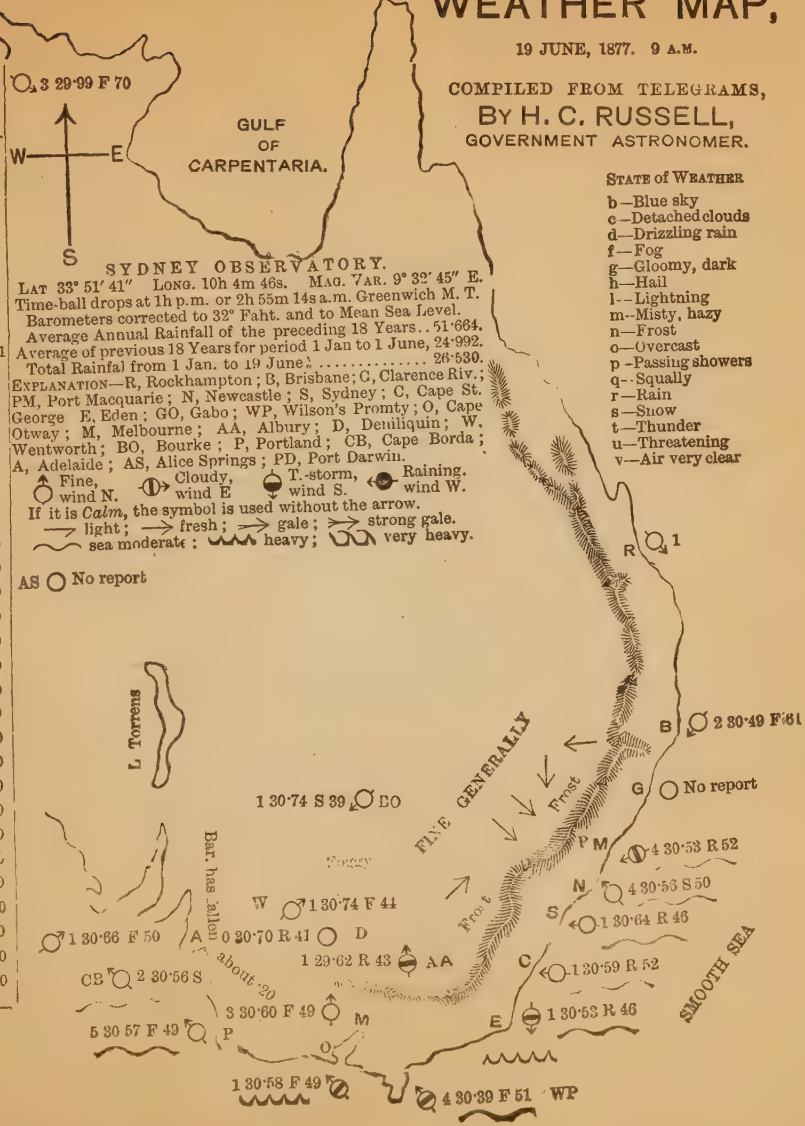


WEATHER MAP,

19 JUNE, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max	Min.	Rain
Tenterfi'ld	b	61	55	0
Grafton ..	..	..	..	.
Inverell ..	b	62	30	0
Bourke ..	n	62	37	0
Narrabri ..	b	67	39	0
Armidale .	b	60	32	0
Gunnedah	..	..	..	..
Tamworth	b	63	31	0
P. Macqrie	c	66	51	0·01
Murr'undi	n	55	36	0
Cassilis ..	b	59	28	0
Mus'brook	n	62	28	0
Dubbo ..	b	59	37	0
Mudgee ..	b	52	40	0
Maitland..	..	..	..	..
Newcastle	b	68	40	0
Orange ..	n	48	29	0
Bathurst..	n	59	24	0
MtVictoria	b	50	31	0
Forbes ..	b	54	34	0
SYDNEY ..	b	62	44	0
Wentw'th.	n	63	37	0
Young ..	n	56	26	0
Woll'gong	b	61	53	0
Euston ..	f	51	37	0
Goulburn	b	52	27	0
Wagga ..	f	49	35	0
Cape Geo.	c	58	47	0
Queanb'an	c	53	45	0
Deniliquin	f	59	37	0
Albury ..	f	53	39	0
Bodalla ..	n	65	32	0
Cooma ..	n	58	20	0
Eden	c	57	44	0
Gabo Isld.	c	55	49	0

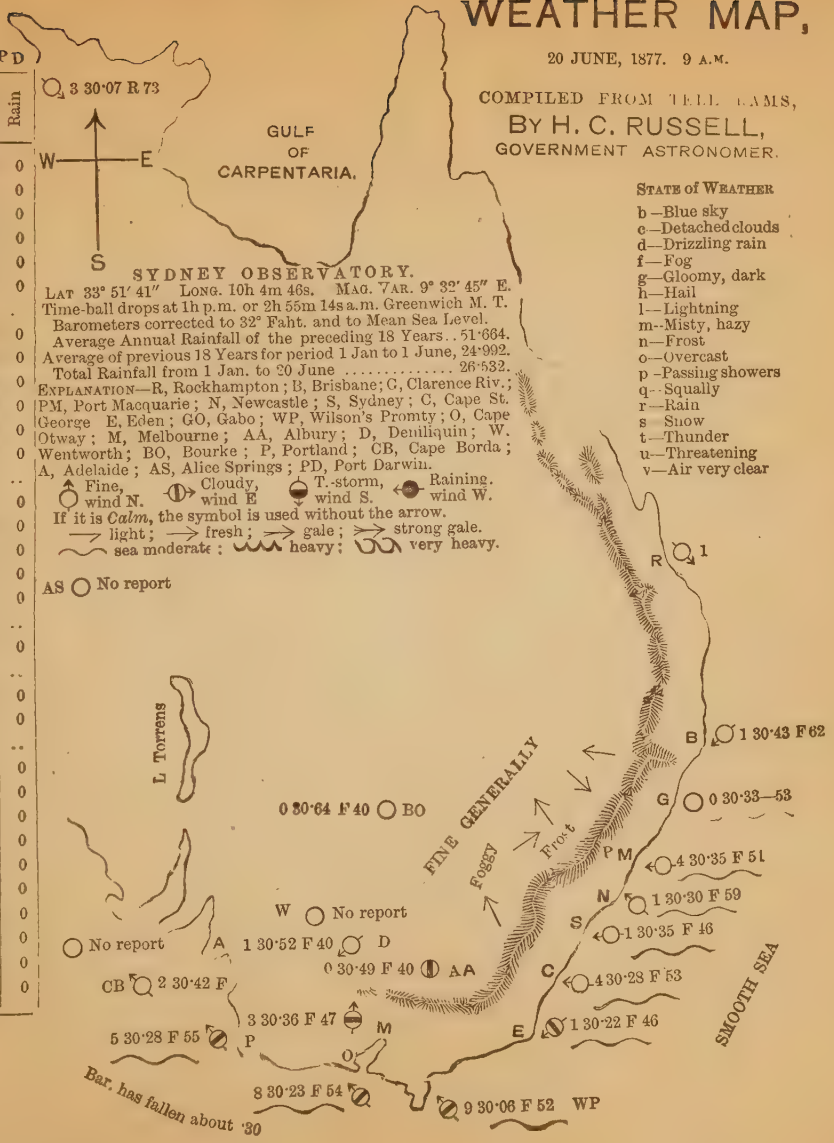


WEATHER MAP,

20 JUNE, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	b	88	45	0
Grafton ..	b	75	40	0
Inverell ..	b	62	31	0
Bourke ..	n	63	36	0
Narrabri..	b	65	40	0
Armidale.	b	57	32	0
Gunnedah	..	..	..	.
Tamworth	b	67	30	0
P. Macqrie	b	66	41	0
Murr'undi	b	56	38	0
Cassilis ..	b	59	30	0
Mus'brook	n	61	36	0
Dubbo ..	n	58	35	0
Mudgee ..	..	..	..	..
Maitland..	b	51	46	0
Newcastle	b	69	40	0
Orange ..	b	50	29	0
Bathurst..	f	57	24	0
MtVictoria	b	54	38	0
Forbes ..	..	..	..	..
SYDNEY ..	b	60	44	0
Wentw'th.	..	..	..	..
Young ..	f	58	25	0
Woll'gong	b	66	50	0
Euston ..	..	..	..	..
Goulburn	b	59	32	0
Wagga ..	f	41	31	0
Cape Geo.	b	58	48	0
Queanb'an	f	50	29	0
Deniliquin	f	45	37	0
Albury ..	o	48	37	0
Bodalla ..	b	65	28	0
Cooma ..	n	56	20	0
Eden	c	56	42	0
Gabo Isld.	c	56	48	0

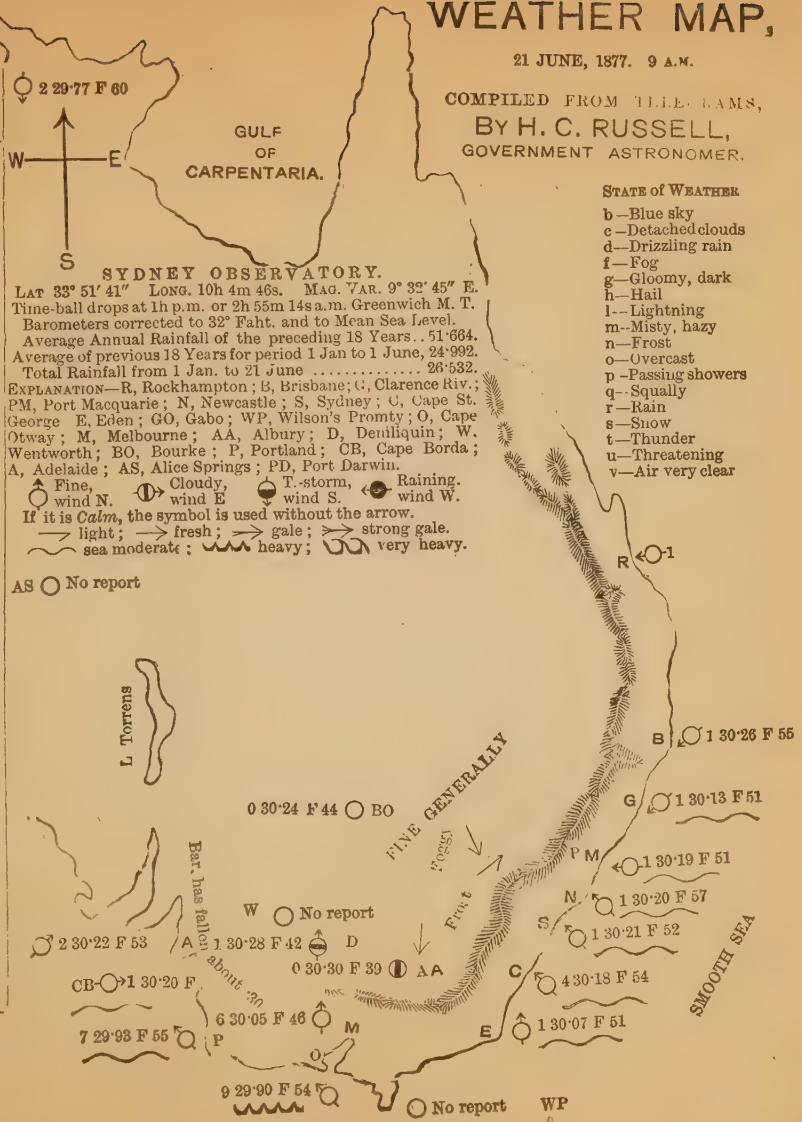


WEATHER MAP,

21 JUNE, 1877. 9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max	Min.	Rain.
Tenterfi'ld	b	61	55	0
Grafton ..	b	81	40	0
Inverell ..	b	62	31	0
Bourke ..	n	63	39	0
Narrabri ..	b	68	34	0
Armidale .	n	58	33	0
Gunnedah	..	..	..	..
Tamworth	n	62	29	0
P. Macqrie	b	69	43	0
Murr'undi	n	58	38	0
Cassilis ..	b	63	31	0
Mus'brook	b	68	37	0
Dubbo ..	..	..	..	..
Mudgee ..	..	..	..	..
Maitland ..	b	63	48	0
Newcastle	b	71	40	0
Orange ..	b	52	31	0
Bathurst ..	n	58	26	0
Mt Victoria	..	..	..	..
Forbes ..	b	56	38	0
SYDNEY ..	b	66	46	0
Wentw'th.	..	..	..	..
Young ..	n	57	26	0
Woll'gong	b	66	50	0
Euston ..	b	47	35	0
Goulburn	..	..	..	..
Wagga ..	f	41	23	0
Cape Geo.	b	65	50	0
Queanb'an	b	58	32	0
Deniliquin	o	46	40	0
Albury ..	o	45	35	0
Bodalla ..	n	73	31	0
Cooma ..	n	63	25	0
Eden	b	61	46	0
Gabo Isld.	b	61	51	0

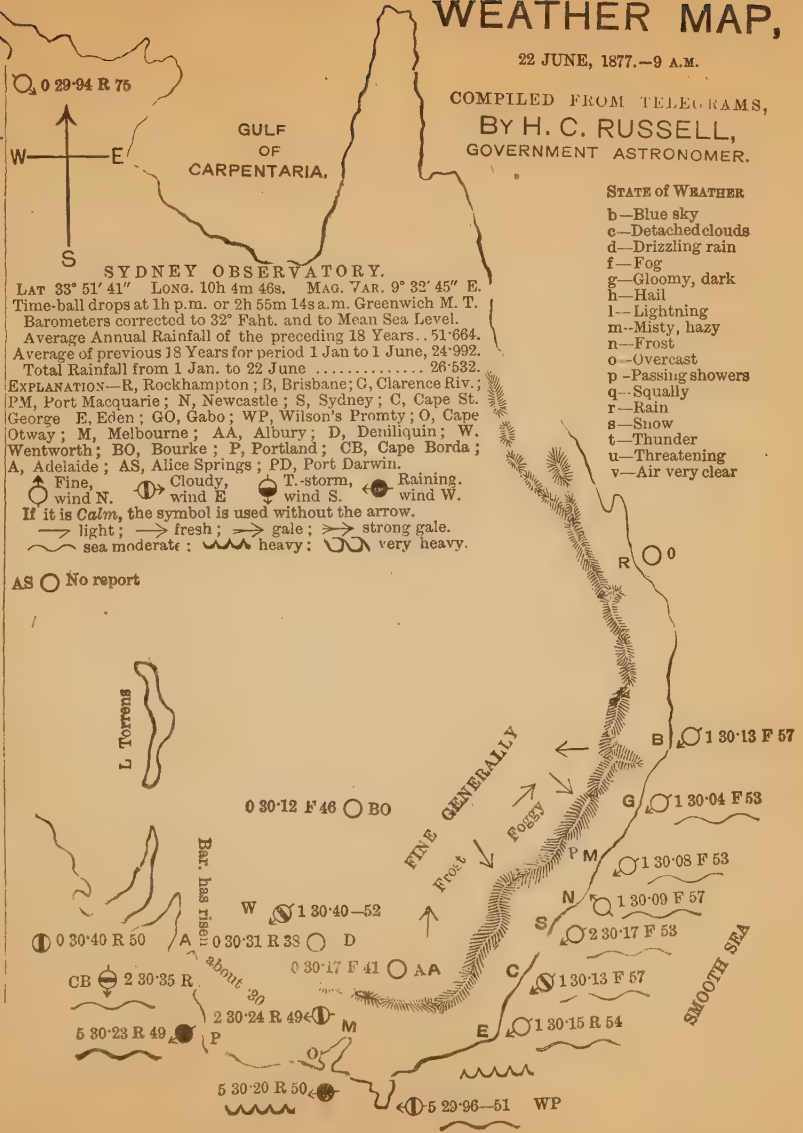


WEATHER MAP,

22 JUNE, 1877.—9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max	Min.	Rain.
Tenterfi'ld	b	61	55	0
Grafton ..	b	83	34	0
Inverell ..	b	65	28	0
Bourke ..	b	68	41	0
Narrabri..	b	68	44	0
Armidale.	b	59	37	0
Gunnedah	n	74	31	0
Tamworth	n	61	27	0
P. Macqrie	b	69	42	0
Murr undi	n	60	42	0
Cassilis ..	b	65	33	0
Mus'brook	b	70	38	0
Dubbo ..	n	58	35	0
Mudgee ..	..	..	..	..
Maitland..	..	..	..	..
Newcastle	b	69	40	0
Orange ..	n	60	35	0
Bathurst..	b	60	28	0
MtVictoria	..	..	..	..
Forbes ..	..	..	..	..
SYDNEY ..	b	60	50	0
Wentw'th.	o	71	39	0
Young ..	fn	56	22	0
Woll'gong	b	61	55	0
Euston ..	o	68	36	0
Goulburn	b	60	36	0
Wagga ..	f	46	31	0
Cape Geo.	c	66	51	0
Queanb'an	c	56	34	0
Deniliquin	b	7	36	0
Albury ..	n	54	35	0
Bodalla ..	n	73	32	0
Cooma ..	..	..	..	..
Eden	b	62	49	0
Gabo Isld.	c	63	50	0

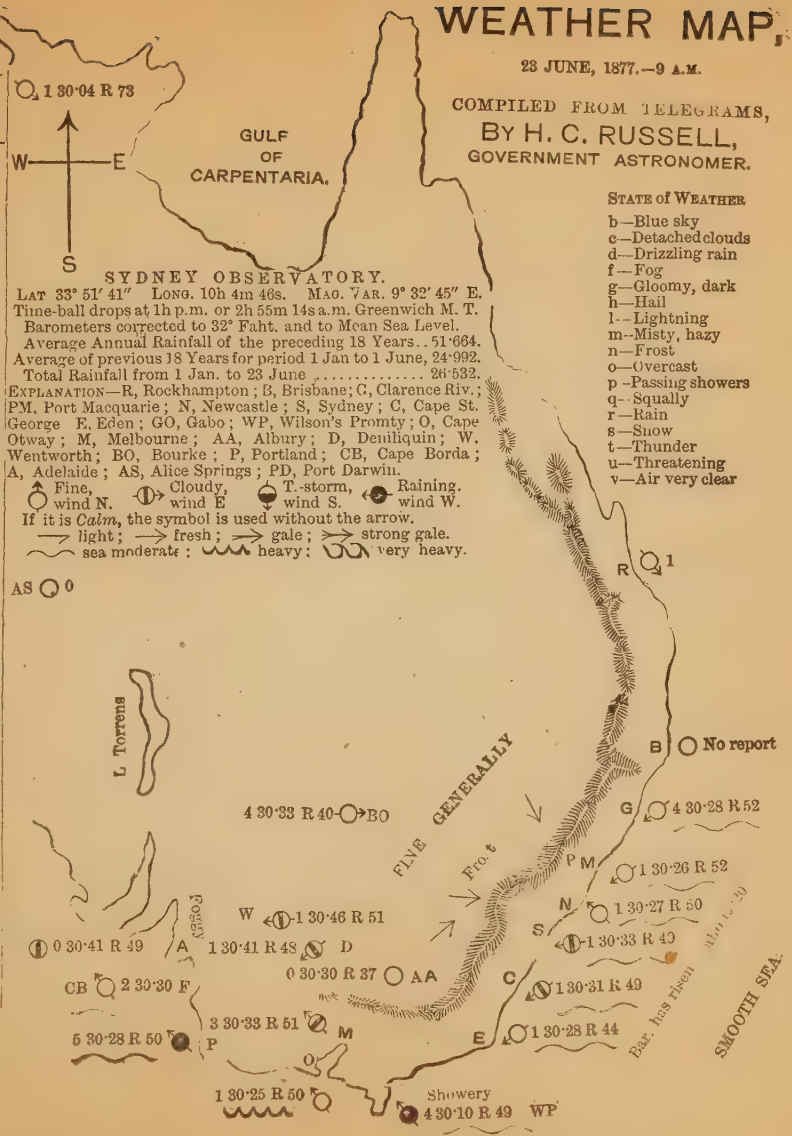


WEATHER MAP,

23 JUNE, 1877.—9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain,
Tenterfi'ld	b	64	55	0
Grafton ..	b	83	38	0
Inverell ..	b	64	33	0
Bourke ..	b	69	41	0
Narrabri ..	b	67	38	0
Armidale .	b	58	31	0
Gunnedah	..	..	..	..
Tamworth	n	61	29	0
P. Macqrie	b	65	46	0
Murr'undi	b	60	39	0
Cassilis ..	b	62	27	0
Mus'brook	n	66	30	0
Dubbo ..	n	60	38	0
Mudgee ..	..	..	..	..
Maitland..	c	63	41	..
Newcastle	c	69	49	0
Orange ..	n	52	28	0
Bathurst..	b	58	22	0
MtVictoria	c	56	35	0
Forbes ..	..	..	..	..
SYDNEY ..	c	63	46	0
Wentw'th.	o	53	42	0
Young ..	n	53	22	0
Woll'gong	b	71	58	0
Euston ..	b	66	43	0
Goulburn	f	52	26	0
Wagga ..	b	53	32	0
Cape Geo.	c	57	45	0
Queanb'an	b	57	29	0
Deniliquin	c	55	36	0
Albury ..	f	56	29	0
Bodalla ..	b	68	35	0
Cooma ..	n	60	28	0
Eden ..	b	58	42	0
Gabo Isld.	b	56	47	0



WEATHER MAP,

25 JUNE, 1877.—9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	c	64	50	0
Grafton ..	o	80	50	0
Inverell ..	b	66	36	0
Bourke ..	n	61	37	0
Narrabri..	c	69	39	0
Armidale.	f	57	35	0
Gunnedah	b	75	45	0
Tamworth	b	65	37	0
P. Macqrie	c	66	50	0
Murr'undi	n	58	38	0
Cassilis ..	b	59	28	0
Mus'brook	n	64	32	0
Dubbo ..	b	63	35	0
Mudgee ..	–	–	..	..
Maitland..	c	59	44	..
Newcastle	c	69	50	0
Orange ..	c	60	29	0
Bathurst..	b	56	23	0
MtVictoria	f	52	31	0
Forbes ..	..	..	..	..
SYDNEY ..	c	59	45	0·01
Wentw'th.	o	59	33	0
Young ..	n	54	26	0
Woll'gong	b	66	50	0
Euston ..	o	68	32	0
Goulburn	f	55	27	0
Wagga ..	n	53	20	0
Cape Geo.	c	58	50	0
Queanb'an	n	48	28	0
Deniliquin	c	56	34	0
Albury ..	n	55	27	0
Bodalla ..	..	..	..	..
Cooma ..	fn	45	20	0
Eden	b	58	41	0
Gabo Isld.	b	55	44	0

WEATHER MAP,

26 JUNE, 1877.—9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

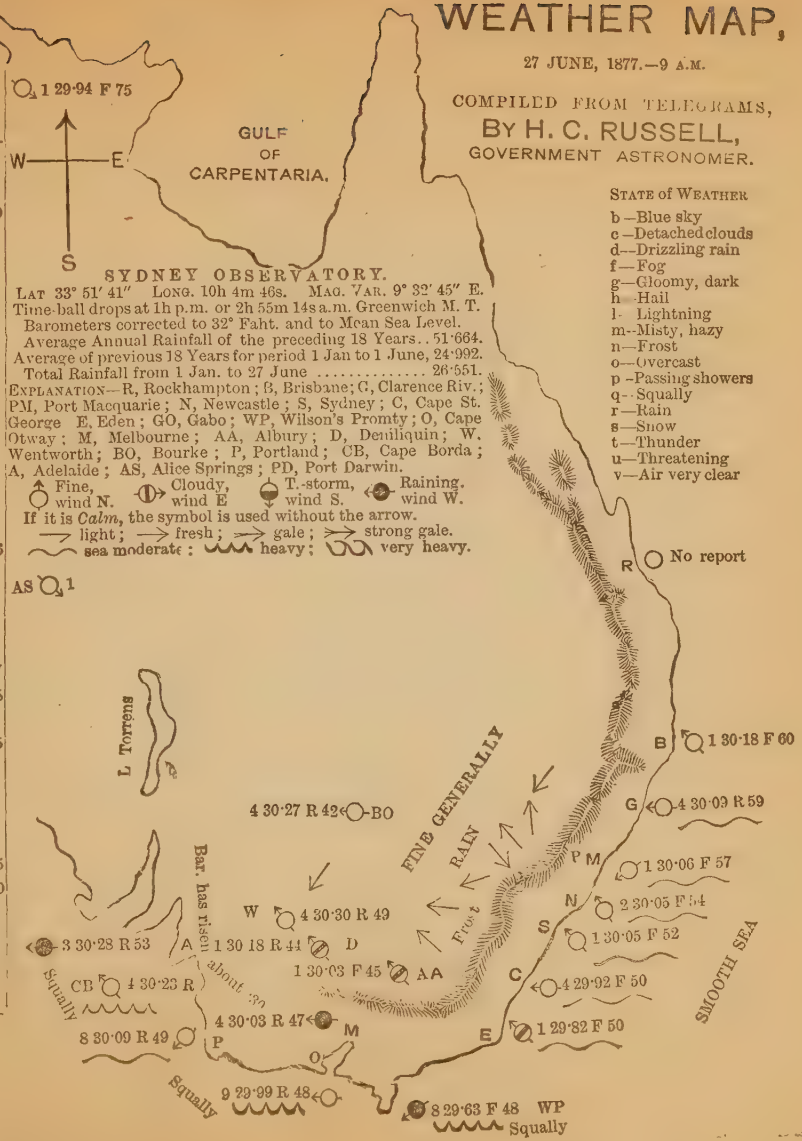
Stations.	Wther.	Max.	Min.	Rain, PD
Tenterfi'ld	b	66	54	0
Grafton ..	c	72	53	0
Inverell ..	b	66	35	0
Bourke ..	b	66	38	0
Narrabri..	b	70	40	0
Armidale.	c	56	34	0
Gunnedah	b	56	40	0
Tamworth	c	67	35	0
P. Macqrie	b	67	47	0
Murr'undi	b	61	38	0
Cassilis ..	f	61	33	0
Mus'brook	f	64	35	0
Dubbo ..	b	58	35	0
Mudgee ..	..	..	..	..
Maitland..	c	66	45	..
Newcastle	f	68	41	0
Orange ..	o	50	31	0
Bathurst..	c	58	27	0
MtVictoria	b	52	35	0
Forbes ..	b	62	41	0
SYDNEY ..	f	61	47	0·01
Wentw'th.	o	56	48	0
Young ..	f	59	26	0
Woll'gong	b	71	60	0
Euston ..	..	..	..	..
Goulburn	b	57	27	0
Wagga ..	f	55	46	0
Cape Geo.	c	56	48	0
Queanb'an	fn	54	30	0
Deniliquin	c	54	31	0
Albury ..	o	57	28	0
Bodalla ..	..	..	..	..
Cooma ..	f	50	20	0
Eden	b	57	41	0
Gabo Isld.	b	55	45	0

WEATHER MAP,

27 JUNE, 1877.—9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterfi'ld	b	62	55	0
Grafton ..	b	72	40	0
Inverell ..	c	65	37	0·20
Bourke ..	b	67	42	0
Narrabri..	b	71	43	0
Armidale.	n	52	38	0
Gunnedah	b	74	40	0
Tamworth	b	62	40	0
P. Macqrie	b	63	40	0
Murr'undi	b	62	37	0
Cassilis ..	u	65	36	0
Mus'brook	b	71	37	0
Dubbo ..	b	58	25	0
Mudgee ..	..	..	..	..
Maitland..	b	60	51	..
Newcastle	b	70	44	0
Orange ..	p	52	35	0·06
Bathurst..	c	58	32	0
MtVictoria	c	52	34	0
Forbes ..	..	..	..	..
SYDNEY ..	b	67	48	0
Wentw'th.	b	62	40	0·07
Young ..	r	53	31	0·18
Woll'gong	b	61	50	0
Euston ..	b	59	41	0·05
Goulburn	..	..	..	..
Wagga ..	u	55	45	0
Cape Geo.	c	61	46	0
Queanb'an	..	51	31	0
Deniliquin	o	54	38	0·25
Albury ..	d	53	35	0·20
Bodalla ..	n	65	28	0
Cooma ..	n	40	22	0
Eden ...	c	56	45	0
Cabo Isld.	b	75	45	0

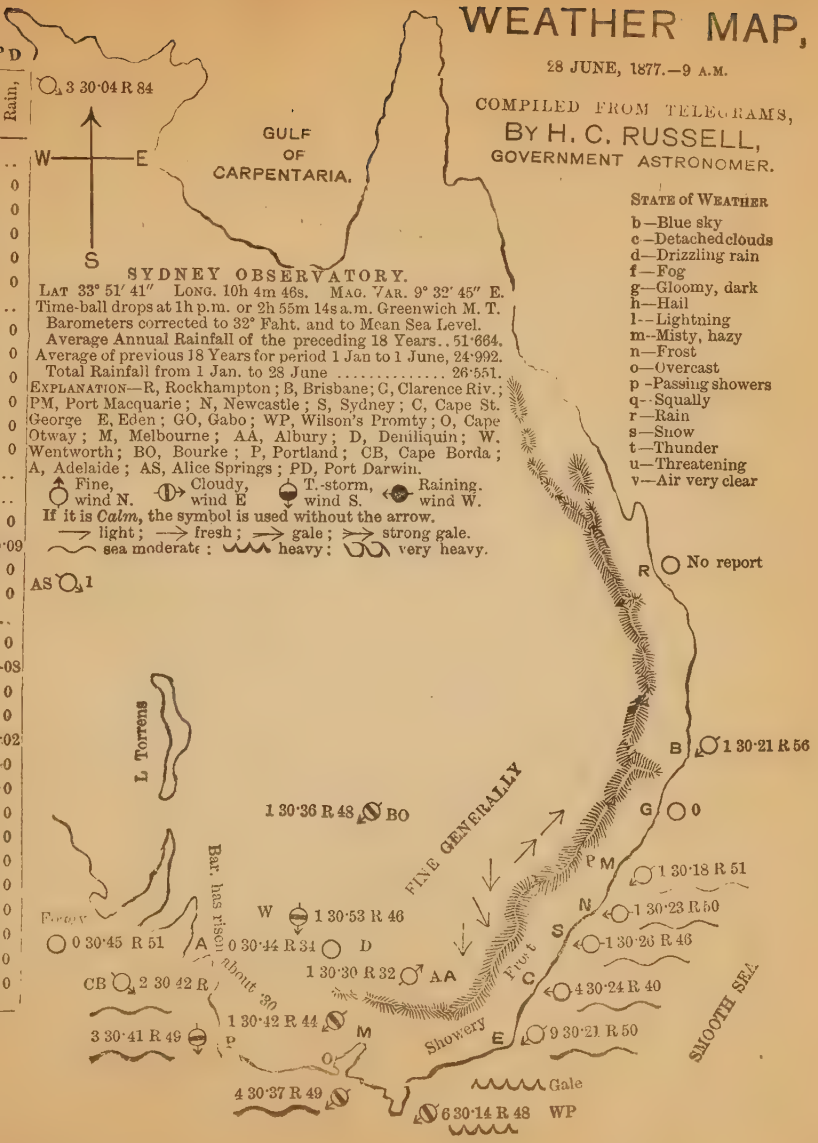


WEATHER MAP,

28 JUNE, 1877.—9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Tenterfl'ld	..	..	..	..
Grafton ..	b	81	39	0
Inverell ..	b	58	28	0
Bourke ..	c	62	43	0
Narrabri ..	n	64	35	0
Armidale .	b	55	37	0
Gunnedah	..	..	..	..
Tamworth	c	60	37	0
P. Macqrie	b	68	43	0
Murr'undi	b	56	46	0
Cassilis ..	b	57	41	0
Mus'brook	b	62	39	0
Dubbo ..	b	59	35	0
Mudgee ..	..	..	..	..
Maitland ..	b	61	49	..
Newcastle	b	70	41	0
Orange ..	b	45	31	0·09
Bathurst ..	b	50	27	0
MtVictoria	b	48	28	0
Forbes ..	..	..	..	..
SYDNEY ..	b	60	44	0
Wentw'th.	c	62	39	0·08
Young ..	n	48	26	0
Woll'gong	b	61	50	0
Euston ..	b	56	30	0·02
Goulburn	b	46	31	0
Wagga ..	n	50	36	0
Cape Geo.	b	57	41	0
Queanb'an	n	48	26	0
Deniliquin	n	54	33	0
Albury ..	b	54	28	0
Bodalla ..	n	65	31	0
Cooma ..	n	56	23	0
Eden	b	60	23	0
Gabo Isld.	op	55	43	0



WEATHER MAP,

29 JUNE, 1877.—9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

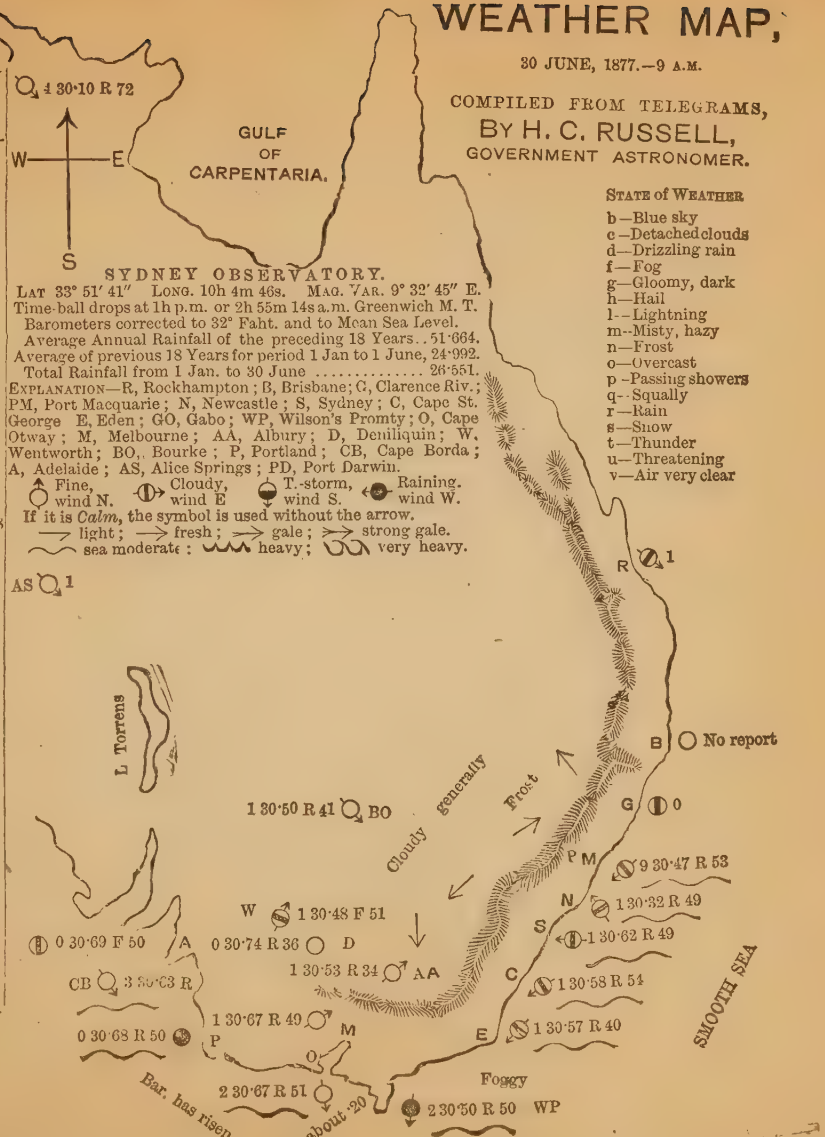
Stations.	W'ther.	Max.	Min.	Rain,
Tenterfi'ld	n	56	40	0
Grafton ..	c	75	46	0
Inverell ..	b	58	28	0
Bourke ..	n	60	35	0
Narrabri ..	n	60	35	0
Armidale .	b	50	28	0
Gunnedah	..	..	..	..
Tamworth	n	53	25	0
P. Macqrie	c	61	43	0
Murr'undi	n	54	34	0
Cassilis ..	b	54	23	0
Mus'brook	n	59	27	0
Dubbo ..	n	60	36	0
Mudgee ..	..	..	..	..
Maitland ..	c	58	39	0
Newcastle	c	69	39	0
Orange ..	b	44	26	0
Bathurst ..	n	51	22	0
MtVictoria	b	45	27	0
Forbes ..	..	..	..	..
SYDNEY ..	b	56	42	0
Wentw'th.	b	62	38	0
Young ..	fn	49	22	0
Woll'gong	b	66	53	0
Euston ..	..	..	..	..
Goulburn	b	49	24	0
Wagga ..	b	53	34	0
Cape Geo.	c	54	48	0
Queanb'an	b	51	26	0
Deniliquin	o	55	31	0
Albury ..	n	55	25	0
Bodalla ..	n	63	26	0
Cooma ..	n	53	23	0
Eden	b	54	44	0
Gabo Isld.	b	52	47	0

WEATHER MAP,

30 JUNE, 1877.—9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	b	51	45	0
Grafton ..	o	76	40	0
Inverell ..	b	59	28	0
Bourke ..	n	59	37	0
Narrabri..	b	64	40	0
Armidale.	n	56	36	0
Gunnedah	..	..	..	..
Tamworth	b	61	29	0
P. Macqrie	p	64	51	0
Murr'undi	n	58	36	0
Cassilis ..	..	..	..	..
Mus'brook	o	59	30	0
Dubbo ..	b	56	34	0
Mudgee ..	..	..	..	..
Maitland..	o	53	41	0
Newcastle	o	73	38	0·08
Orange ..	n	43	29	0
Bathurst..	n	52	25	0
MtVictoria	b	47	31	0
Forbes ..	b	59	38	0
SYDNEY ..	g	57	43	0
Wentw'th.	c	62	39	0
Young ..	b	52	24	0
Woll'gong	b	61	53	0
Euston ..	..	..	..	..
Goulburn	f	55	26	0
Wagga ..	n	51	34	0
Cape Geo.	c	54	50	0
Queanb'an	o	52	27	0
Deniliquin	n	57	30	0
Albury ..	n	56	27	0
Bodalla ..	n	66	30	0
Cooma ..	n	55	26	0
Eden	c	58	47	0
Cabo Isld.	fd	55	50	0



WEATHER MAP,

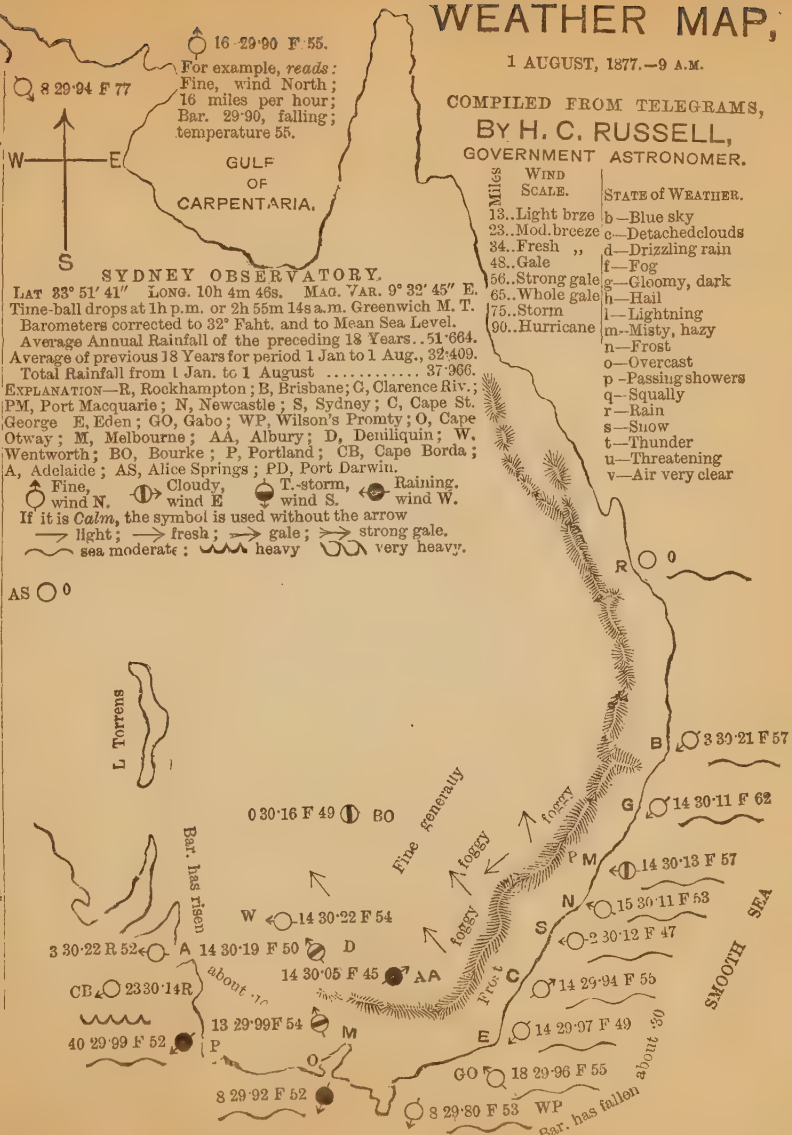
1 AUGUST, 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	b	62	39	0
Grafton ..	u	75	44	0
Inverell ..	b	66	35	0
Bourke ..	c	75	45	0
Narrabri ..	b	79	39	0
Armidale ..	b	57	40	0
Gunnedah	b	79	36	0
Tamworth	b	68	36	0
P. Macqrie	f	65	52	0
Murr'undi	b	61	44	0
Cassilis ..	b	65	33	0
Mus'brook	f	66	38	0
Dubbo ..	b	65	39	0
Mudgee ..	..	..	..	..
Maitland ..	f	61	49	0
Newcastle	f	70	45	0
Orange ..	b	55	36	0
Bathurst ..	f	61	28	0
MtVictoria	b	55	35	0
Forbes ..	..	..	..	..
SYDNEY ..	f	63	46	0
Wentw'th.	b	75	40	0
Young ..	b	63	26	0
Woll'gong	..	..	..	..
Euston ..	b	73	43	0
Goulburn	b	64	32	0
Wagga ..	u	64	40	0
Cape Geo.	b	63	50	0
Queanb'an	b	61	35	0
Deniliquin	b	67	41	0
Albury ..	r	68	36	0·04
Bodalla ..	fn	70	31	0
Cooma ..	n	64	28	0
Eden	b	61	49	0
Gabo Isld.	b	60	51	0



WEATHER MAP,

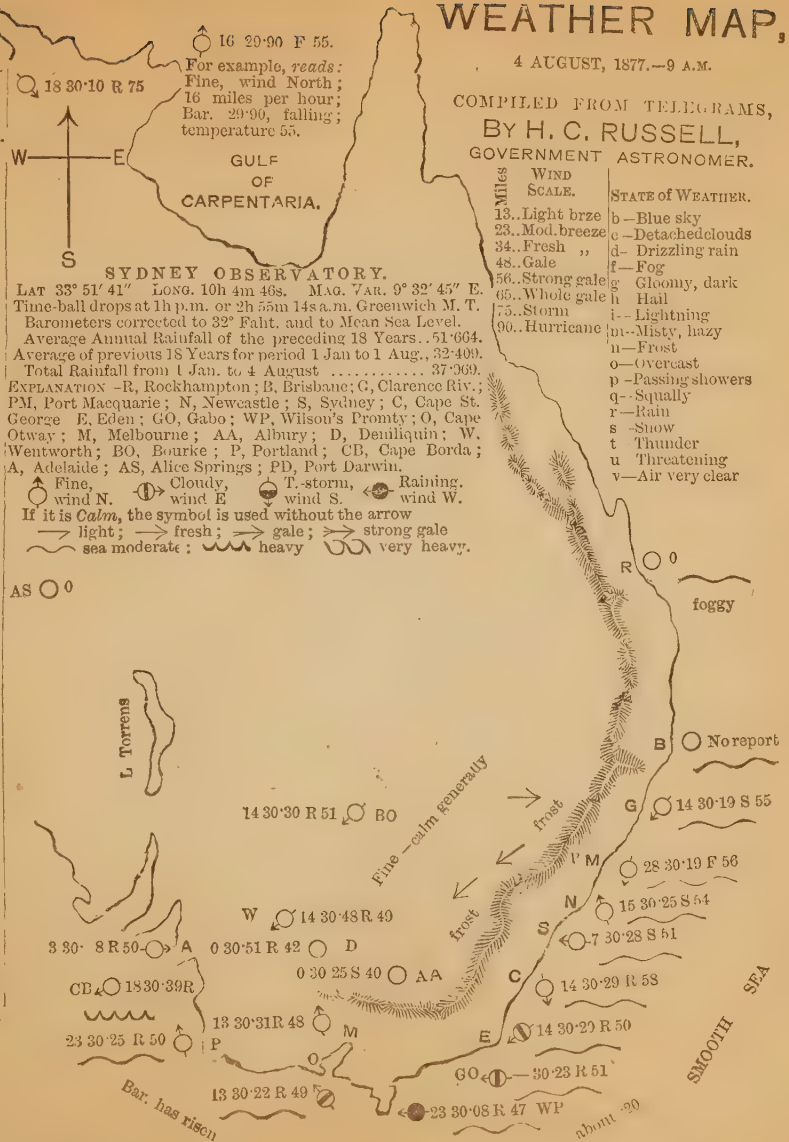
4 AUGUST, 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	..	..	..	..
Grafton ..	o	92	46	0
Inverell ..	b	65	32	0
Bourke ..	b	70	42	0
Narrabri..	n	81	36	0
Armidale.	n	59	37	0
Gunnedah	..	73	35	0
Tamworth	b	67	32	0
P. Macqrie	b	67	48	0
Murr'undi	b	61	43	0
Cassilis ..	b	61	31	0
Mus'brook	b	66	35	0
Dubbo ..	b	60	35	0
Mudgee ..	..	..	..	..
Maitland..	b	..	43	0
Newcastle	b	75	45	0
Orange ..	..	..	..	..
Bathurst..	c	62	27	0
MtVictoria	b	55	35	0
Forbes ..	..	..	..	..
SYDNEY ..	c	62	47	0
Wentw'th.	b	71	39	0
Young ..	..	..	..	..
Woll'gong	b	66	54	0
Euston ..	..	..	..	..
Goulburn	n	61	34	0
Wagga ..	b	60	35	0
Cape Geo.	c	60	49	0
Queanb'an	c	58	33	0
Deniliquin	b	68	35	0
Albury ..	b	52	34	0
Bodalla ..	c	71	31	0
Cooma ..	c	65	27	0
Eden	c	60	49	0
Gabo Isld.	c	59	45	0



WEATHER MAP,

6 AUGUST, 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain
Tenterfi'ld	b	61	30	0
Grafton ..	b	79	42	0
Inverell ..	b	61	28	0
Bourke ..	b	68	42	0
Narrabri ..	n	74	36	0
Armidale .	b	58	37	0
Gunnedah	b	78	34	0
Tamworth	b	63	28	0
P. Macqrie	b	68	46	0
Murr'undi	b	60	41	0
Cassilis ..	b	62	30	0
Mus'brook	b	67	34	0
Dubbo ..	b	60	35	0
Mudgee ..	..	..	..	..
Maitland..	b	..	44	0
Newcastle	b	69	40	0
Orange ..	b	49	37	0
Bathurst..	f	59	26	0
MtVictoria	f	64	31	0
Forbes ..	..	..	..	..
SYDNEY ..	b	65	46	0
Wentw'th.	f	71	37	0
Young ..	f	57	30	0
Woll'gong	b	66	49	0
Euston ..	..	..	..	..
Goulburn	b	56	30	0
Wagga ..	b	61	33	0
Cape Geo.	b	59	46	0
Queanb'an	n	59	30	0
Deniliquin	b	62	35	0
Albury ..	b	61	28	0
Bodalla ..	n	70	26	0
Cooma ..	n	61	18	0
Eden	b	57	46	0
Gabo Isld.	..	..	..	..

WEATHER MAP,

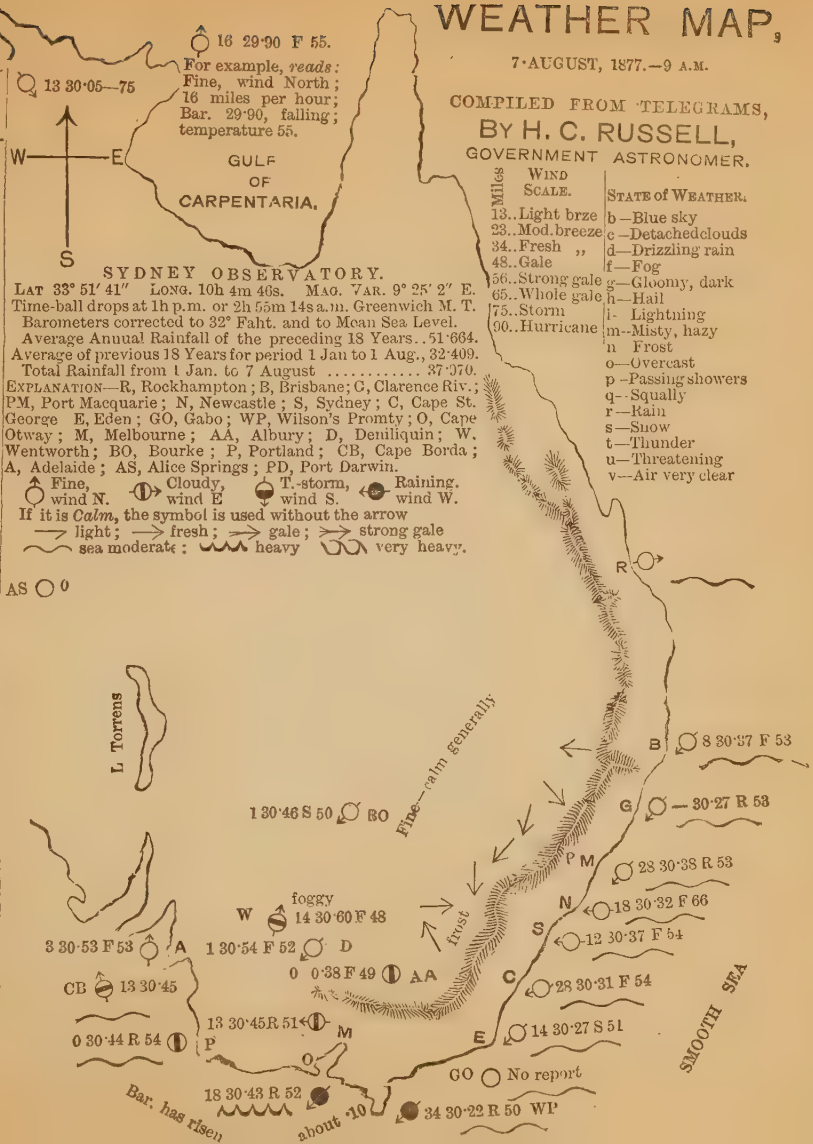
7·AUGUST, 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain
Tenterfi'ld	b	61	30	0
Grafton ..	b	79	40	0
Inverell ..	b	63	39	0
Bourke ..	b	68	40	0
Narrabri ..	b	83	36	0
Armidale .	b	55	33	0
Gunnedah	b	77	34	0
Tamworth	b	66	26	0
P. Macqrie	b	68	45	0
Murr'undi	b	60	41	0
Cassilis ..	b	64	31	0
Mus'brook	b	67	40	0
Dubbo ..	b	61	35	0
Mudgee ..	..	..	..	..
Maitland..	b	..	52	0
Newcastle	b	67	41	0
Orange ..	b	52	39	0
Bathurst..	b	59	30	0
Mt Victoria	b	52	34	0
Forbes ..	..	..	..	..
SYDNEY ..	b	64	50	0
Wentw'th.	f	66	37	0
Young ..	b	58	35	0
Woll'gong	b	62	55	0
Euston ..	..	..	..	..
Goulburn	b	58	40	0
Wagga ..	b	61	33	0
Cape Geo.	c	59	49	0
Queanb'an	b	61	34	0
Deniliquin	b	60	43	0
Albury ..	c	62	35	0
Bodalla ..	n	69	30	0
Cooma ..	n	69	29	0
Eden	c	63	45	0
Gabo Isld.	..	..	..	..



WEATHER MAP,

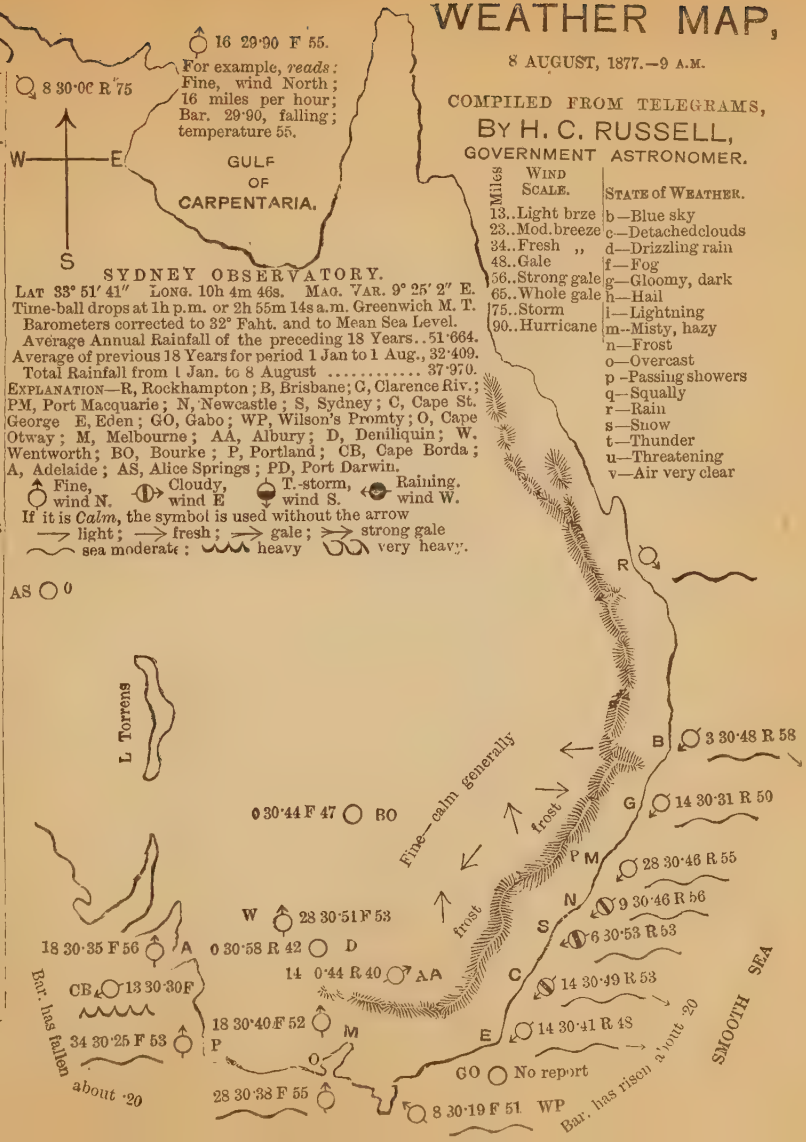
8 AUGUST, 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	b	66	35	0
Grafton ..	u	81	42	0
Inverell ..	b	64	28	0
Bourke ..	b	70	41	0
Narrabri ..	n	80	39	0
Armidale .	b	59	33	0
Gunnedah	b	77	36	0
Tamworth	b	65	33	0
P. Macqrie	b	66	48	0
Murr'undi	b	60	41	0
Cassilis ..	b	63	29	0
Mus'brook	b	67	37	0
Dubbo ..	b	64	45	0
Mudgee ..	..	..	..	..
Maitland ..	b	..	53	0
Newcastle	g	66	41	0·23
Orange ..	c	55	38	0
Bathurst ..	b	67	25	0
MtVictoria	g	55	38	0
Forbes ..	..	..	..	..
SYDNEY ..	c	64	50	0
Wentw'th.	b	68	39	0
Young ..	b	60	28	0
Woll'gong	b	64	35	0
Euston ..	..	..	..	..
Goulburn	b	61	40	0
Wagga ..	b	61	32	0
Cape Geo.	c	59	49	0
Queanb'an	b	61	39	0
Deniliquin	b	65	37	0
Albury ..	b	65	31	0
Bodalla ..	n	69	32	0
Cooma ..	n	68	23	0
Eden	b	57	43	0
Gabo Isld.	..	..	..	..



SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 18 Years..51·664.

Average of previous 18 Years for period 1 Jan to 1 Aug., 32·409.

Total Rainfall from 1 Jan. to 8 August ..... 37·970.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale

sea moderate; heavy; very heavy.

WEATHER MAP,

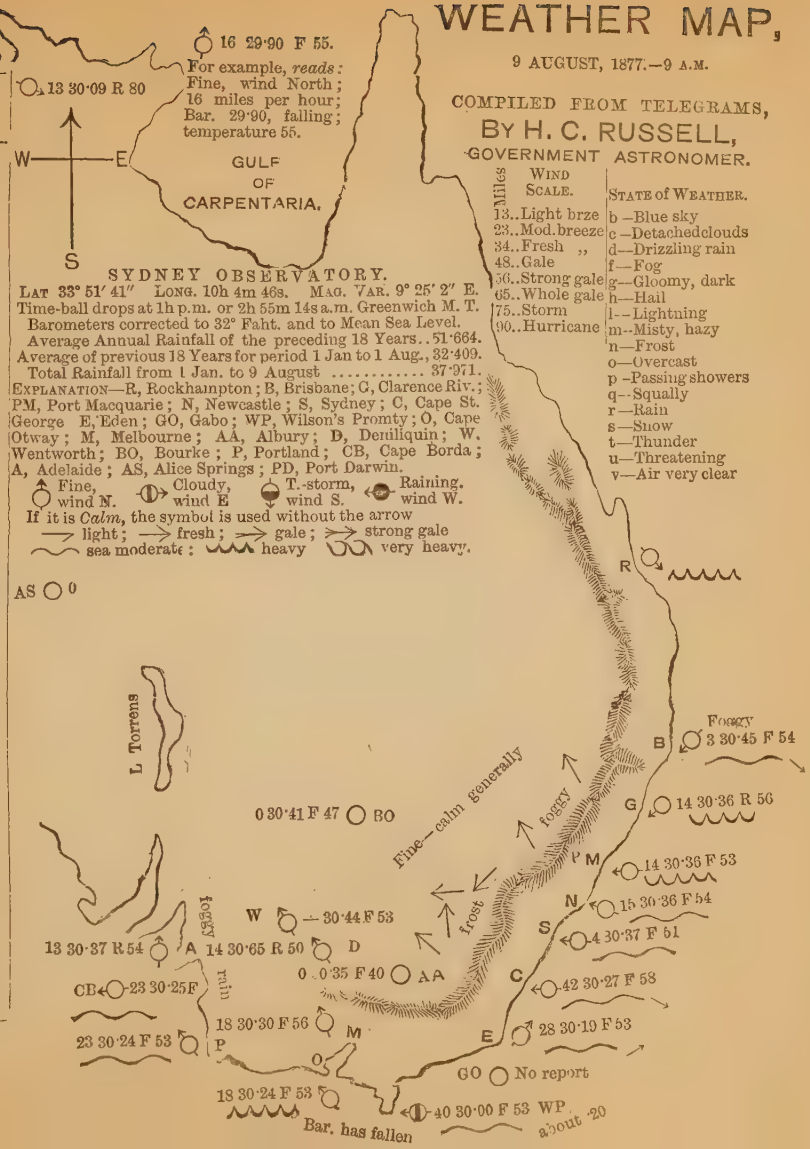
9 AUGUST, 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	n 61	40		0
Grafton ..	b 78	47		0
Inverell ..	b 66	28		0
Bourke ..	b 72	40		0
Narrabri..	b 81	37		0
Armidale.	b 58	32		0
Gunnedah	b 81	34		0
Tamworth	b 70	30		0
P. Macqrie	b 68	46		0
Murr'undi	b 61	44		0
Cassilis ..	b 65	30		0
Mus'brook	b 66	31		0
Dubbo ..	b 62	35		0
Mudgee ..	..	..	..	..
Maitland..	..	..	..	..
Newcastle	b 69	40		0
Orange ..	n 55	34		0
Bathurst..	n 56	28		0
MtVictoria	b 56	40		0
Forbes ..	..	..	..	..
SYDNEY ..	b 61	46		0
Wentw'th.	b 73	39		0
Young ..	b 61	27		0
Woll'gong	b 65	55		0
Euston ..	b 72	31		0
Goulburn	b 63	41		0
Wagga ..	b 60	34		0
Cape Geo.	c 60	49		0
Queanb'an	b 60	33		0
Deniliquin	b 65	42		0
Albury ..	b 64	29		0
Bodalla ..	n 68	20		0
Cooma ..	b 65	33		0
Eden	b 58	45		0
Gabo Isld.	..	..	..	..



SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 18 Years..51·664.

Average of previous 18 Years for period 1 Jan to 1 Aug., 32·409.

Total Rainfall from 1 Jan. to 9 August ..... 37·971.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale

sea moderate; heavy; very heavy.

WEATHER MAP,

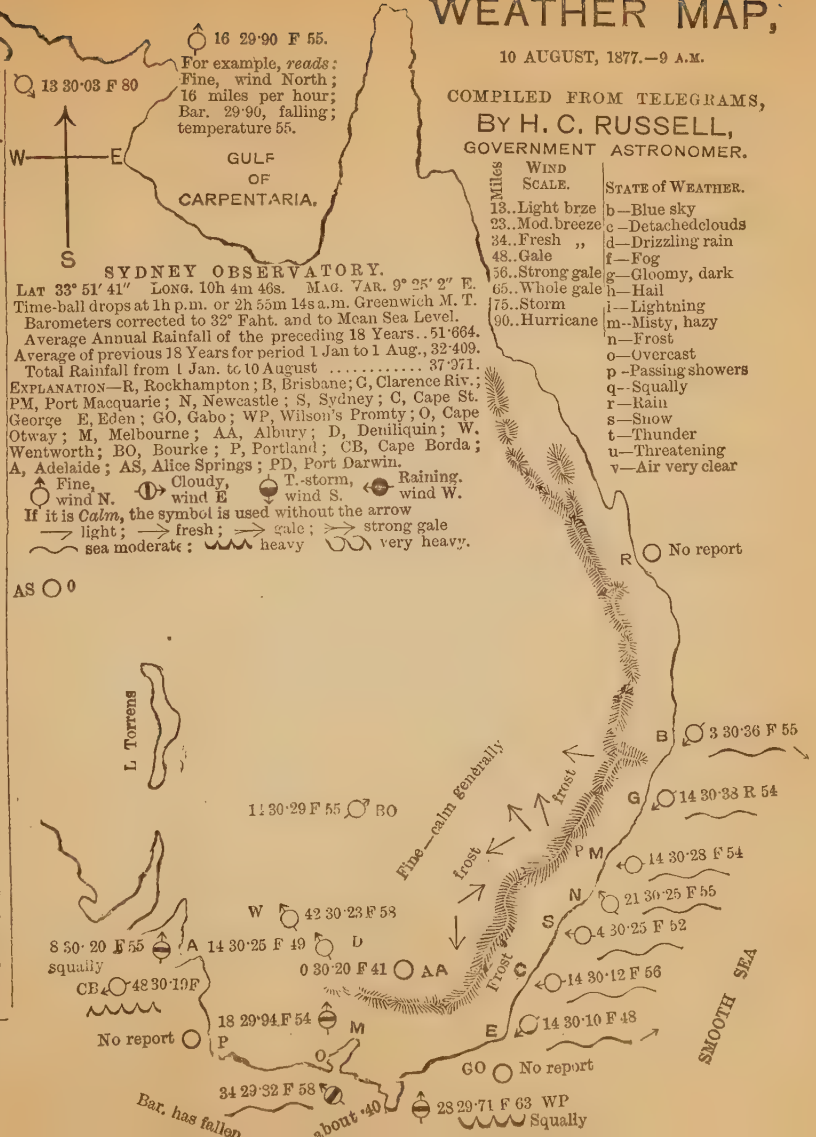
10 AUGUST, 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	b	61	40	0
Grafton ..	c	83	46	0
Inverell ..	b	65	31	0
Bourke ..	b	75	45	0
Narrabri ..	b	87	37	0
Armidale .	n	59	31	0
Gunnedah	b	80	33	0
Tamworth	b	69	29	0
P. Macqrie	b	69	45	0
Murr'undi	b	60	43	0
Cassilis ..	b	63	30	0
Mus'brook	b	71	32	0
Dubbo ..	b	60	38	0
Mudgee ..	..	..	..	..
Maitland..	b	65	47	0
Newcastle	b	70	40	0
Orange ..	n	56	32	0
Bathurst..	n	57	24	0
MtVictoria	b	57	36	0
Forbes ..	..	..	..	..
SYDNEY ..	b	70	47	0
Wentw'th.	b	77	43	0
Young ..	b	65	27	0
Woll'gong	b	71	58	0
Euston ..	..	..	..	..
Goulburn	b	64	40	0
Wagga ..	b	64	35	0
Cape Geo.	b	68	51	0
Queanb'an	b	64	33	0
Deniliquin	b	70	44	0
Albury ..	b	67	31	0
Bodalla ..	n	78	31	0
Cooma ..	n	71	30	0
Eden	b	67	44	0
Gabo Isld.	..	..	..	..



WEATHER MAP,

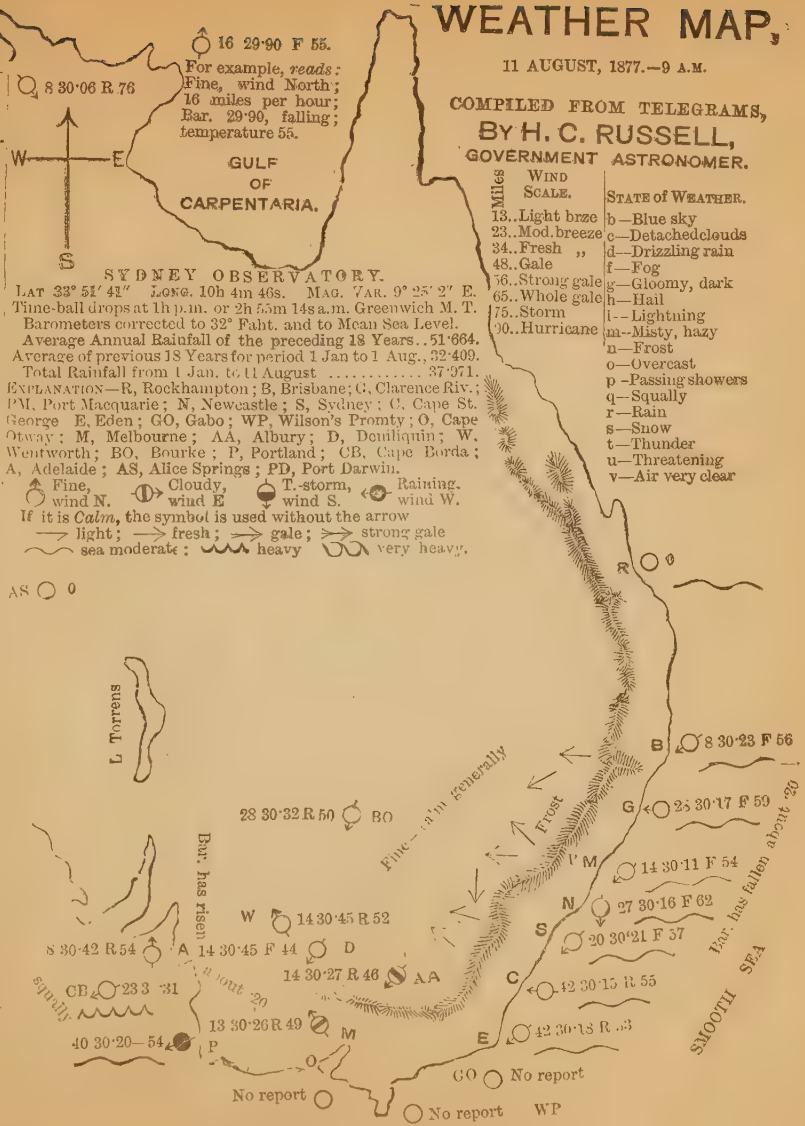
11 AUGUST, 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	b	31	30	0
Grafton ..	b	80	42	0
Inverell ..	b	67	29	0
Bourke ..	b	78	48	0
Narrabri ..	n	85	34	0
Armidale ..	b	60	33	0
Gunnedah	b	80	34	0
Tamworth	b	69	30	0
P. Macqrie	b	70	44	0
Murr'undi	b	65	43	0
Cassilis ..	b	70	38	0
Mus'brook	b	72	41	0
Dubbo ..	b	64	38	0
Mudgee ..	..	..	..	..
Maitland ..	c	67	45	0
Newcastle	b	73	47	0
Orange ..	b	56	40	0
Bathurst ..	b	63	33	0
MtVictoria	b	56	38	0
Forbes ..	..	..	..	..
SYDNEY ..	n	75	52	0
Wentw'th.	c	76	44	0
Young ..	b	64	35	0
Woll'gong	..	..	..	.
Euston ..	..	..	..	..
Goulburn	b	63	41	0
Wagga ..	..	..	..	..
Cape Geo.	b	67	52	0
Queanb'an	b	63	39	0
Deniliquin	b	74	38	0
Albury ..	c	70	35	0·02
Bodalla ..	..	..	.	..
Cooma ..	n	66	31	0·02
Eden	b	66	47	0·04
Gabo Isld.	..	..	..	..



WEATHER MAP.

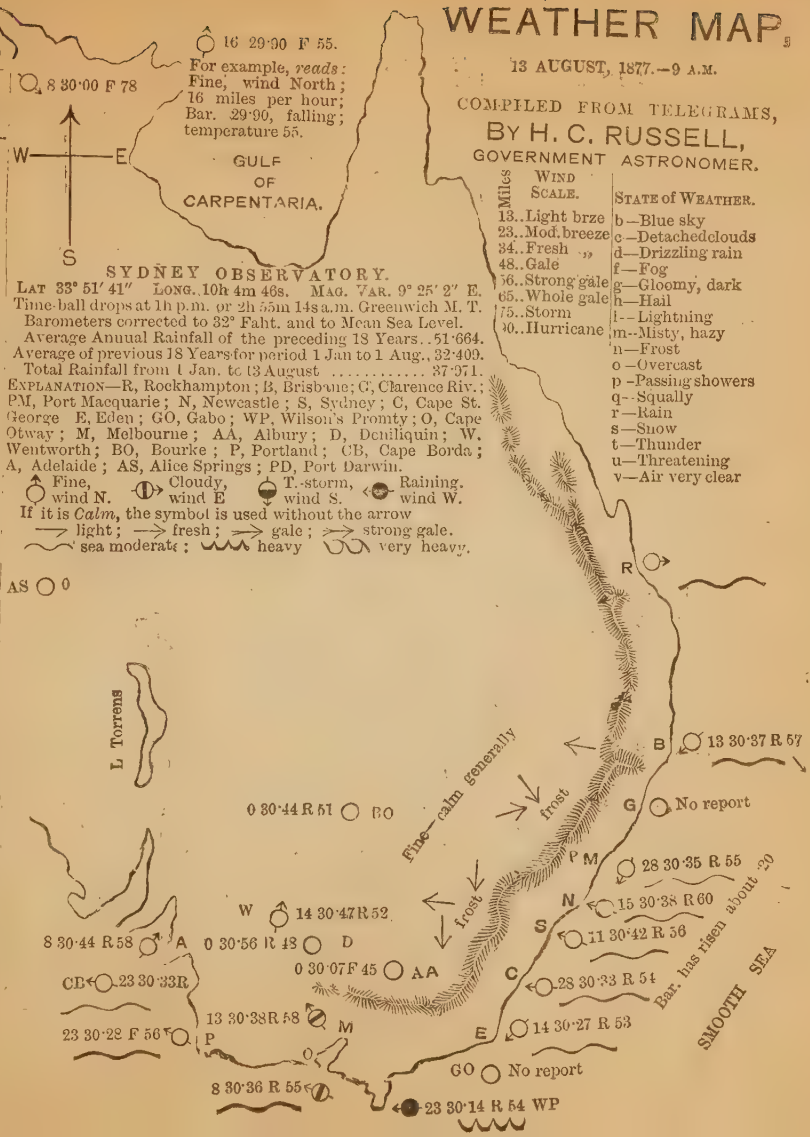
13 AUGUST, 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	n	66	29	0
Grafton ..	b	81	45	0
Inverell ..	b	66	31	0
Bourke ..	b	70	42	0
Narrabri ..	n	84	34	0
Armidale .	b	60	32	0
Gunnedah	b	73	34	0
Tamworth	b	68	28	0
P. Macqrie	b	65	44	0
Murr'undi	b	61	41	0
Cassilis ..	b	68	51	0
Mus'brook	b	71	34	0
Dubbo ..	b	62	39	0
Mudgee ..	..	..	..	..
Maitland..	b	65	44	0
Newcastle	b	71	41	0
Orange ..	b	54	35	0
Bathurst..	b	60	24	0
MtVictoria	b	55	31	0
Forbes ..	..	..	..	..
SYDNEY ..	b	67	51	0
Wentw'th.	b	74	37	0
Young ..	b	59	28	0
Woll'gong	..	..	..	..
Euston ..	..	..	..	..
Goulburn	b	58	33	0
Wagga ..	b	62	33	..
Cape Geo	b	64	51	0
Queanb'an	b	60	32	0
Deniliquin	b	68	39	0
Albury ..	b	64	35	0
Bodalla ..	n	72	30	0
Cooma ..	n	70	25	0
Eden	c	62	46	0
Gabo Isld.	..	..	..	..



WEATHER MAP,

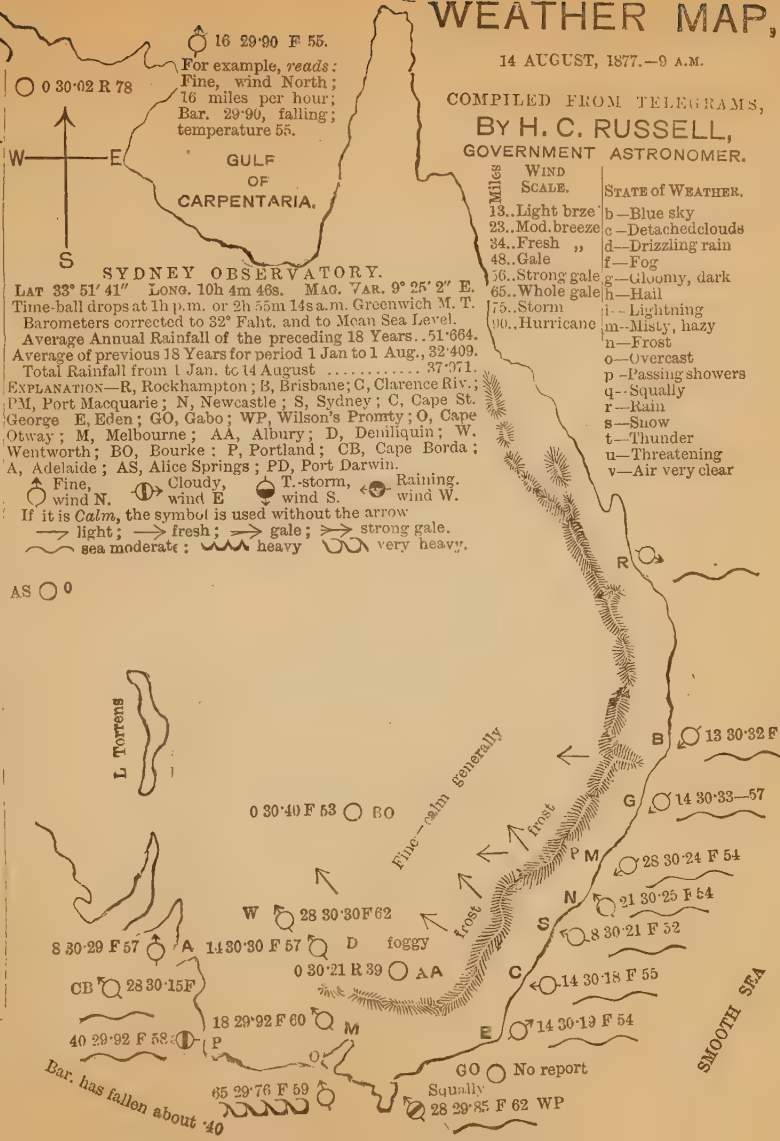
14 AUGUST, 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain
Tenterfi'ld	b	69	32	0
Grafton ..	b	94	44	0
Inverell ..	b	70	30	0
Bourke ..	b	75	41	0
Narrabri..	b	89	36	0
Armidale.	b	64	33	0
Gunnedah	b	73	35	0
Tamworth	b	71	29	0
P. Macqrie	b	69	46	0
Murr'undi	b	61	41	0
Cassilis ..	b	68	52	0
Mus'brook	n	69	33	0
Dubbo ..	b	62	39	0
Mudgee ..	..	..	..	..
Maitland..	b	65	43	0
Newcastle	b	69	38	0
Orange ..	n	58	34	0
Bathurst..	..	..	..	..
MtVictoria	b	59	36	0
Forbes ..	..	..	..	..
SYDNEY ..	b	69	47	0
Wentw'th.	b	80	42	0
Young ..	b	65	29	0
Woll'gong	..	..	..	..
Euston ..	b	80	40	0
Goulburn	b	64	34	0
Wagga ..	b	66	34	..
Cape Geo.	b	64	48	0
Queanb'an	b	66	34	0
Deniliquin	b	73	44	0
Albury ..	f	70	34	0
Bodalla ..	b	60	34	0
Cooma ..	n	73	27	0
Eden	b	63	46	0
Gabo Isld.	..	..	..	..



WEATHER MAP,

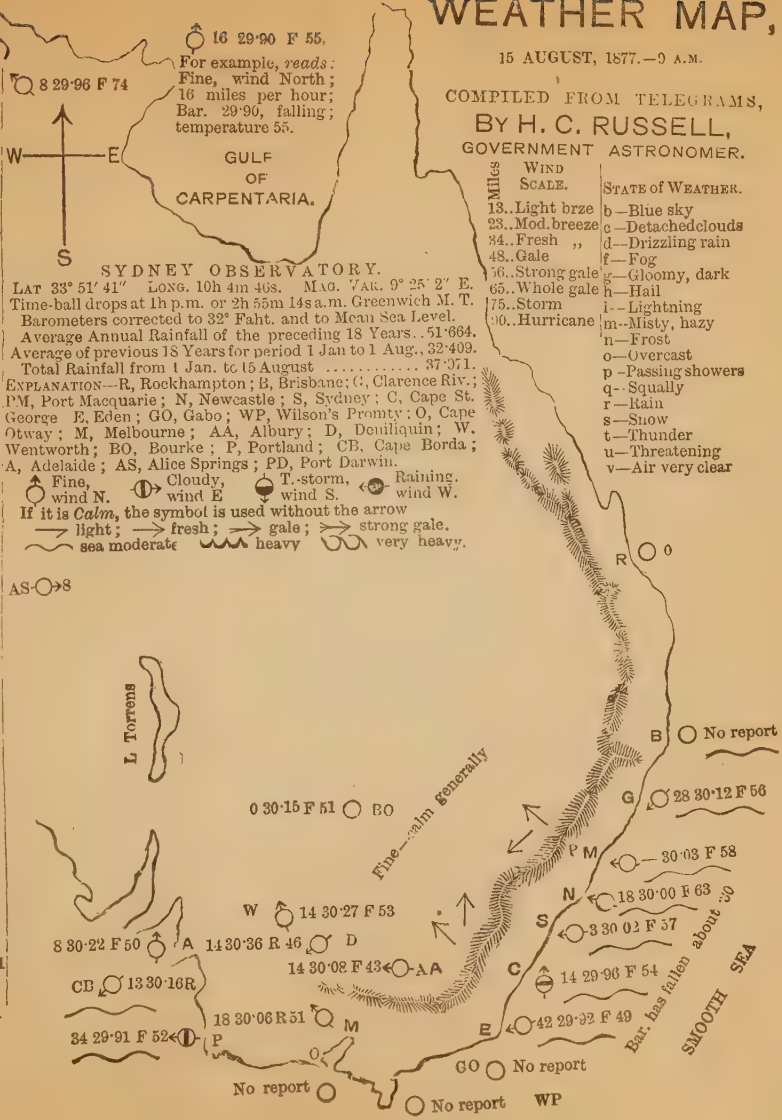
15 AUGUST, 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain
Tenterfi'ld	b	38	32	0
Grafton ..	b	82	41	0
Inverell ..	b	69	28	0
Bourke ..	b	78	43	0
Narrabri ..	b	88	36	0
Armidale .	b	61	41	0
Gunnedah	b	80	36	0
Tamworth	b	69	30	0
P. Macqrie	b	71	45	0
Murr'undi	b	68	50	0
Cassilis ..	b	75	34	0
Mus'brook	b	75	42	0
Dubbo ..	..	..	..	..
Mudgee ..	..	..	..	..
Maitland ..	b	66	53	0
Newcastle	b	75	43	0
Orange ..	b	59	38	0
Bathurst ..	b	66	37	0
MtVictoria	..	..	..	..
Forbes ..	..	..	..	..
SYDNEY ..	b	73	52	0
Wentw'th.	b	81	49	0
Young ..	b	68	30	0
Woll'gong	..	..	..	..
Euston ..	b	79	38	0
Goulburn	b	64	45	0
Wagga ..	b	70	37	0
Cape Geo.	c	70	50	0
Queanb'an	b	66	40	0
Deniliquin	b	76	37	0
Albury ..	b	73	31	0
Bodalla ..	g	77	40	0
Cooma ..	b	66	35	0
Eden	c	73	45	0·01
Gabo Isld.	..	..	..	..



WEATHER MAP,

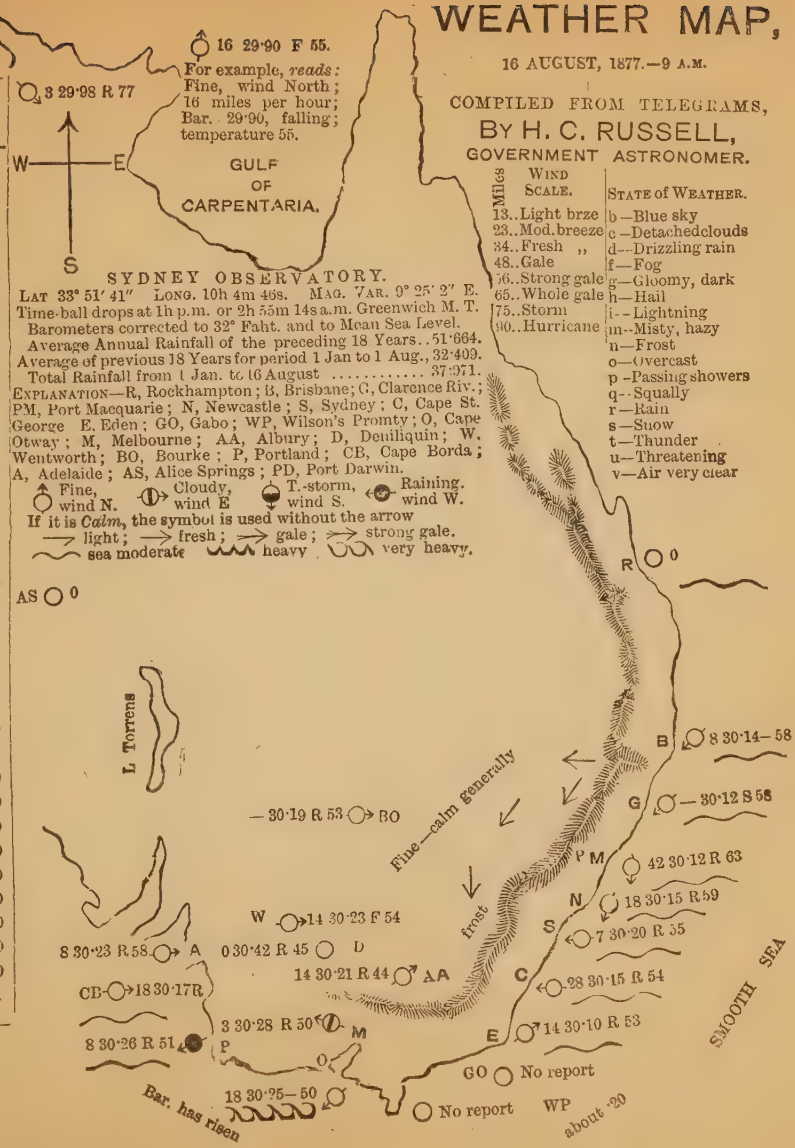
16 AUGUST, 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	b	70	29	0
Grafton ..	b	89	57	0
Inverell ..	b	69	31	0
Bourke ..	b	81	47	0
Narrabri ..	b	89	44	0
Armidale .	b	61	40	0
Gunnedah	..	..	..	..
Tamworth	b	73	31	0
P. Macqrie	b	74	49	0
Murr'undi	b	65	47	0
Cassilis ..	b	71	55	0
Mus'brook	b	76	41	0
Dubbo ..	b	62	39	0
Mudgee ..	..	..	..	..
Maitland..	b	68	55	0
Newcastle	b	78	43	0
Orange ..	b	57	41	0
Bathurst..	b	64	29	0
Mt Victoria	b	58	36	0
Forbes ..	..	..	..	..
SYDNEY ..	b	74	52	0
Wentw'th.	b	79	40	0
Young ..	b	67	26	0
Woli'gong	b	77	54	0
Euston ..	..	..	..	..
Goulburn	b	59	36	0
Wagga ..	b	63	34	0
Cape Geo	b	59	49	0
Queanb'an	b	62	35	0
Deniliquin	b	76	35	0
Albury ..	b	61	29	0
Bodalla ..	n	63	28	0
Cooma ..	n	70	22	0
Eden	b	59	50	0
Gabo Isld.	..	..	..	..



WEATHER MAP,

17 AUGUST, 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterfi'ld	..	..	Line interrupted.	
Grafton	..	..		
Inverell	..	..		
Bourke	b	81	48	0
Narrabri	..	..	Line interrupted.	
Armidale	..	..		
Gunnedah	..	..		
Tamworth	..	..		
P. Macqrie	b	67	47	0
Murr'undi	c	69	40	0
Cassilis	b	69	33	0
Mus'brook	b	67	43	0
Dubbo	b	61	39	0
Mudgee	..	..	..	..
Maitland	c	64	57	0
Newcastle	c	74	41	0
Orange	b	59	36	0
Bathurst	b	63	26	0
MtVictoria	g	53	35	0
Forbes	..	..	..	..
SYDNEY	c	64	49	0
Wentw'th.	b	77	45	0
Young	b	61	30	0
Woll'gong	b	67	54	0
Euston	..	..	..	..
Goulburn	b	64	35	0
Wagga	b	64	35	0
Cape Geo.	c	57	51	0
Queanb'an	c	64	38	0
Deniliquin	b	66	38	0
Albury	b	66	29	0
Bodalla	b	68	33	0
Cooma	b	65	30	0
Eden	c	60	45	0
Gabo Isld.	..	..	..	..

WEATHER MAP,

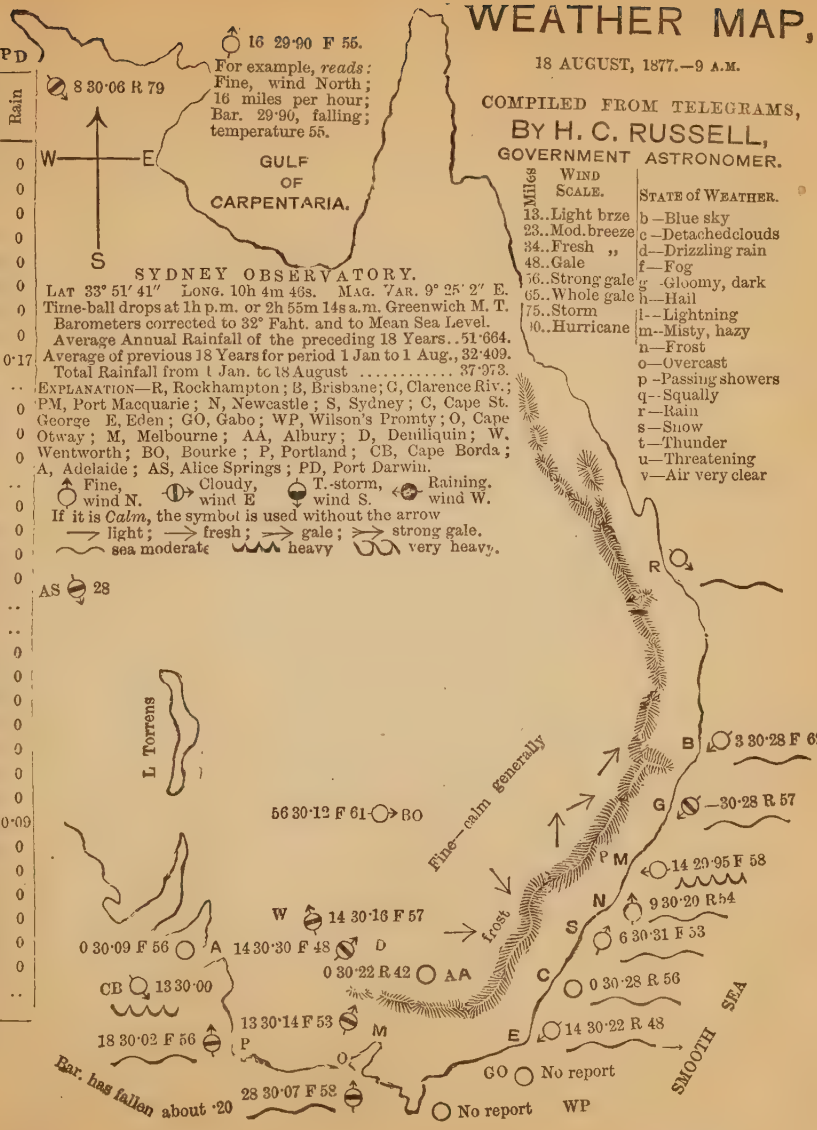
18 AUGUST, 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	c	71	41	0
Grafton ..	c	83	52	0
Inverell ..	..	..	..	0
Bourke ..	b	80	54	0
Narrabri..	b	83	43	0
Armidale.	b	60	30	0
Gunnedah	o	81	46	0
Tamworth	o	73	45	0
P. Macqrie	c	68	51	0·17
Murr'undi	..	..	..	..
Cassilis ..	b	60	41	0
Mus'brook	b	68	36	0
Dubbo ..	b	61	40	0
Mudgee ..	..	..	..	..
Maitland..	b	65	53	0
Newcastle	b	69	42	0
Orange ..	b	36	39	0
Bathurst..	b	60	26	0
MtVictoria	..	..	..	..
Forbes ..	..	..	..	..
SYDNEY ..	b	63	48	0
Wentw'th.	o	80	53	0
Young ..	b	63	30	0
Woll'gong	b	65	55	0
Euston ..	c	31	45	0
Goulburn	b	59	36	0
Wagga ..	b	64	34	0
Cape Geo.	b	58	50	0·09
Queanb'an	b	62	38	0
Deniliquin	o	70	40	0
Albury ..	b	68	32	0
Bodalla ..	n	68	32	0
Cooma ..	n	57	22	0
Eden	b	60	44	0
Gabo Isld.	..	..	..	..



SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664.
Average of previous 18 Years for period 1 Jan to 1 Aug., 32·409.
Total Rainfall from 1 Jan. to 18 August ..... 37·073.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate heavy very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER.

b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

WEATHER MAP,

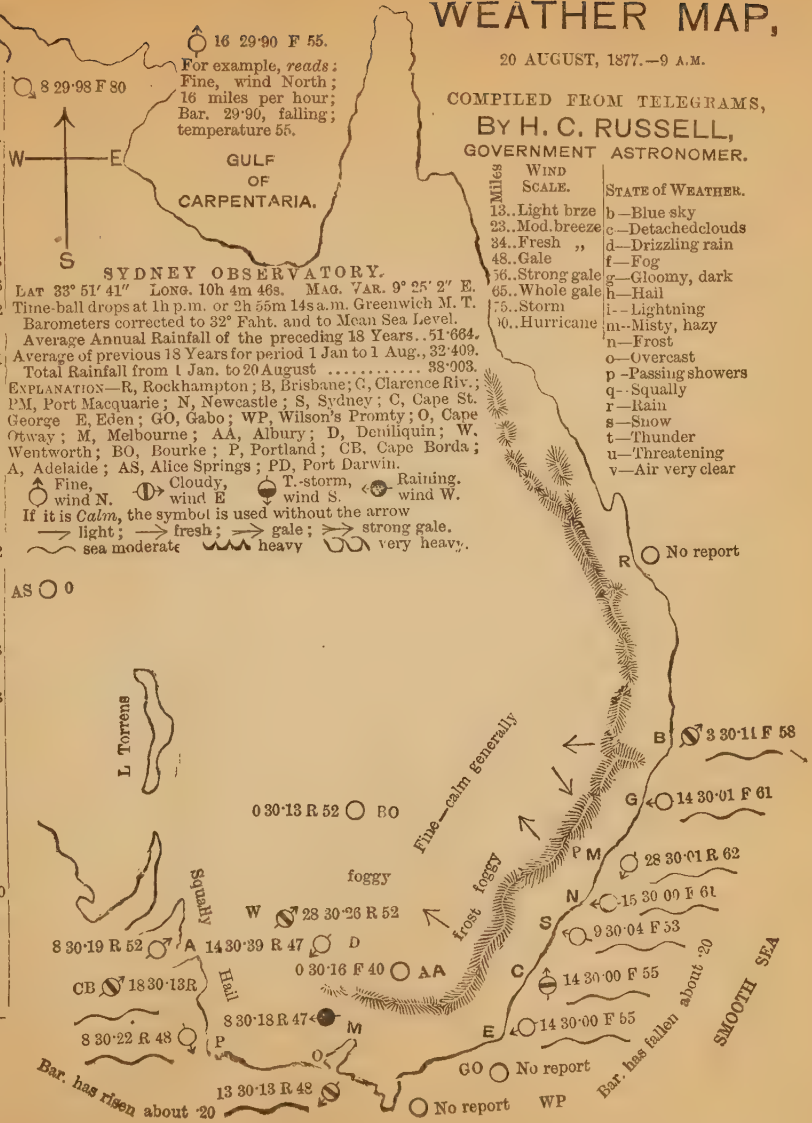
20 AUGUST, 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	b	61	40	0
Grafton ..	b	83	45	0
Inverell ..	b	69	43	0
Bourke ..	b	60	48	0
Narrabri..	b	75	54	0·03
Armidale.	b	63	38	0·26
Gunnedah	b	75	45	0·02
Tamworth	b	74	64	0
P. Macqrie	b	70	54	0·11
Murr'undi	b	68	49	0
Cassilis ..	b	71	37	0
Mus'brook	b	75	39	0
Dubbo ..	b	64	41	0
Mudgee ..	..	..	..	..
Maitland..	..	..	..	..
Newcastle	b	71	41	0
Orange ..	b	58	39	0·02
Bathurst..	b	66	28	0
MtVictoria	b	65	36	0
Forbes ..	..	..	..	..
SYDNEY ..	b	63	49	0·03
Wentw'th.	c	67	38	0
Young ..	f	61	26	0·03
Woll'gong	..	..	..	..
Euston ..	..	..	..	..
Goulburn	b	62	36	0
Wagga ..	f	71	40	0
Cape Geo.	c	64	51	0
Queanb'an	n	65	35	0
Deniliquin	b	67	35	0
Albury ..	b	72	34	0·20
Bodalla ..	..	..	..	..
Cooma ..	n	67	25	0
Eden	b	61	43	0
Gabo Isld.	..	..	..	..



WEATHER MAP,

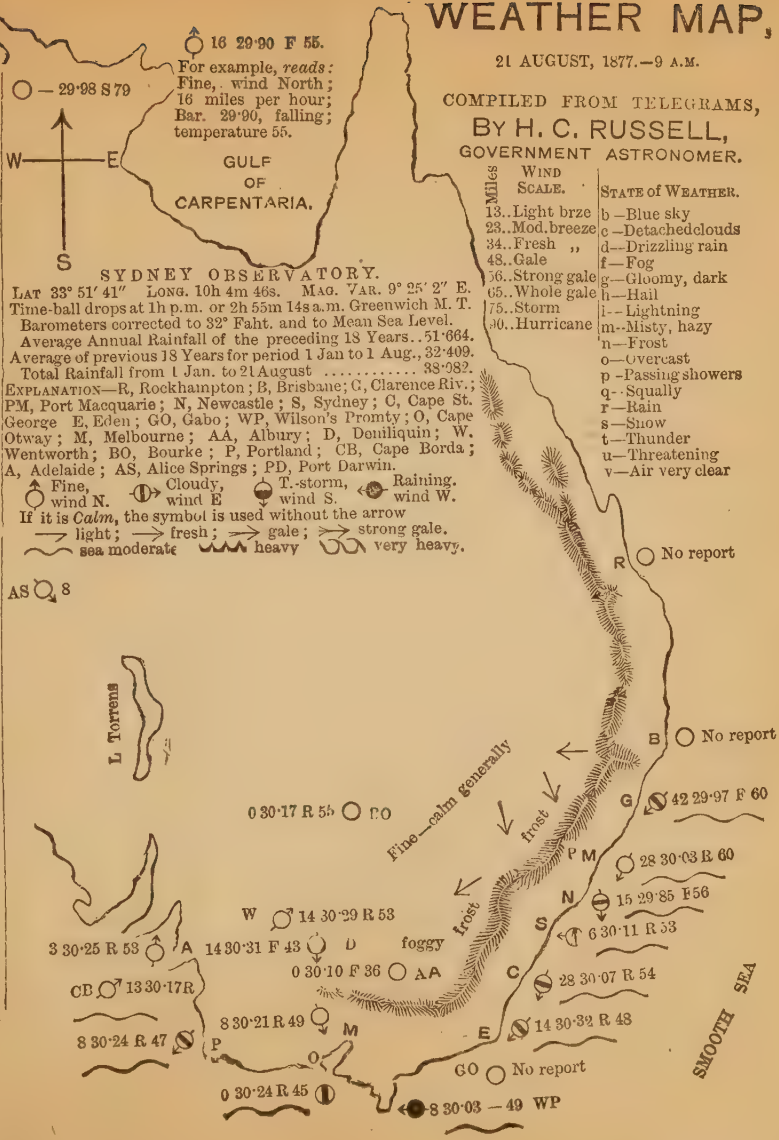
21 AUGUST, 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	b	71	35	0
Grafton ..	b	83	46	0
Inverell ..	b	72	35	0
Bourke ..	b	78	47	0
Narrabri ..	b	81	39	0
Armidale ..	n	61	40	0
Gunnedah	..	..	..	..
Tamworth	b	74	32	0
P. Macqrie	b	70	53	0
Murr'undi	b	62	43	0
Cassilis ..	c	67	37	0
Mus'brook	c	72	41	0
Dubbo ..	b	64	40	0
Mudgee ..	..	..	..	..
Maitland ..	c	65	58	0
Newcastle	g	76	43	0·08
Orange ..	n	51	35	0
Bathurst ..	n	63	26	0
Mt Victoria	c	58	35	0
Forbes ..	..	..	..	..
SYDNEY ..	b	65	49	0·08
Wentw'th.	b	69	43	0
Young ..	n	58	23	0
Woll'gong	b	64	53	0
Euston ..	b	69	33	0
Goulburn	b	60	30	0
Wagga ..	b	61	32	0
Cape Geo.	c	67	53	0
Queanb'an	g	61	39	0
Deniliquin	b	59	29	0
Albury ..	f	65	28	0
Bodalla ..	..	..	..	..
Cooma ..	cn	63	27	0
Eden	c	60	43	0
Gabo Isld.	..	..	..	..



WEATHER MAP,

22 AUGUST, 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain
Tenterfi'ld	b	66	35	0
Grafton ..	b	80	46	0
Inverell ..	b	63	34	0
Bourke ..	b	72	44	0
Narrabri ..	b	71	50	0
Armidale .	c	60	43	0
Gunnedah	b	83	33	0
Tamworth	b	70	34	0
P. Macqrie	b	68	52	0
Murr'undi	b	62	48	0
Cassilis ..	b	65	38	0
Mus'brook	b	72	42	0
Dubbo ..	b	66	40	0
Mudgee ..	..	..	..	..
Maitland ..	b	62	56	0
Newcastle	c	76	40	0·35
Orange ..	b	83	35	0
Bathurst ..	b	61	28	0
MtVictoria	n	59	32	0
Forbes ..	..	..	..	..
SYDNEY ..	b	61	46	0
Wentw'th.	b	58	49	0
Young ..	b	56	26	0
Woll'gong	b	68	53	0
Euston ..	n	69	32	0
Goulburn	fn	58	29	0
Wagga ..	f	61	32	0
Cape Geo.	p	54	48	0·04
Queanb'an	n	59	31	0
Deniliquin	n	58	30	0
Albury ..	b	5	29	0
Bodalla ..	n	64	34	0
Cooma ..	n	60	26	0
Eden	b	58	42	0
Gabo Isld.	..	..	..	..

PD

3 30·03 R 77

16 29·90 F 55.
For example, *reads:* Fine, wind North; 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

W — E

S

SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664.
Average of previous 18 Years for period 1 Jan to 1 Aug., 32·409.
Total Rainfall from 1 Jan. to 22 August ..... 38·982.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate heavy very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
80..	Hurricane

STATE of WEATHER.

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

AS 0

L Torrens

R 0

B 3 30·17—62

G —30·13 R 59

14 30·23 R 49 BO

Fine—calm generally

frost

Frost

PM 42 30·15 R 58

N 27 30·20 R 55

W 14 30·34 R —

S 8 30·27 R 51

foggy

frost

13 30·16 F 58 A

0 30·34 R 41 D

0 30·24 R 42 AA

C 28 30·30 R 51

CB 23 29·97 F

Bar. has risen about ·20

SMOOTH SEA

8 30·22 R 45 M

23 30·13 F 49 P

O

E 14 30·23 F 43

Bar. has fallen about ·10

GO No report

8 30·19 F 49

23 30·09 R 48 WP

WEATHER MAP,

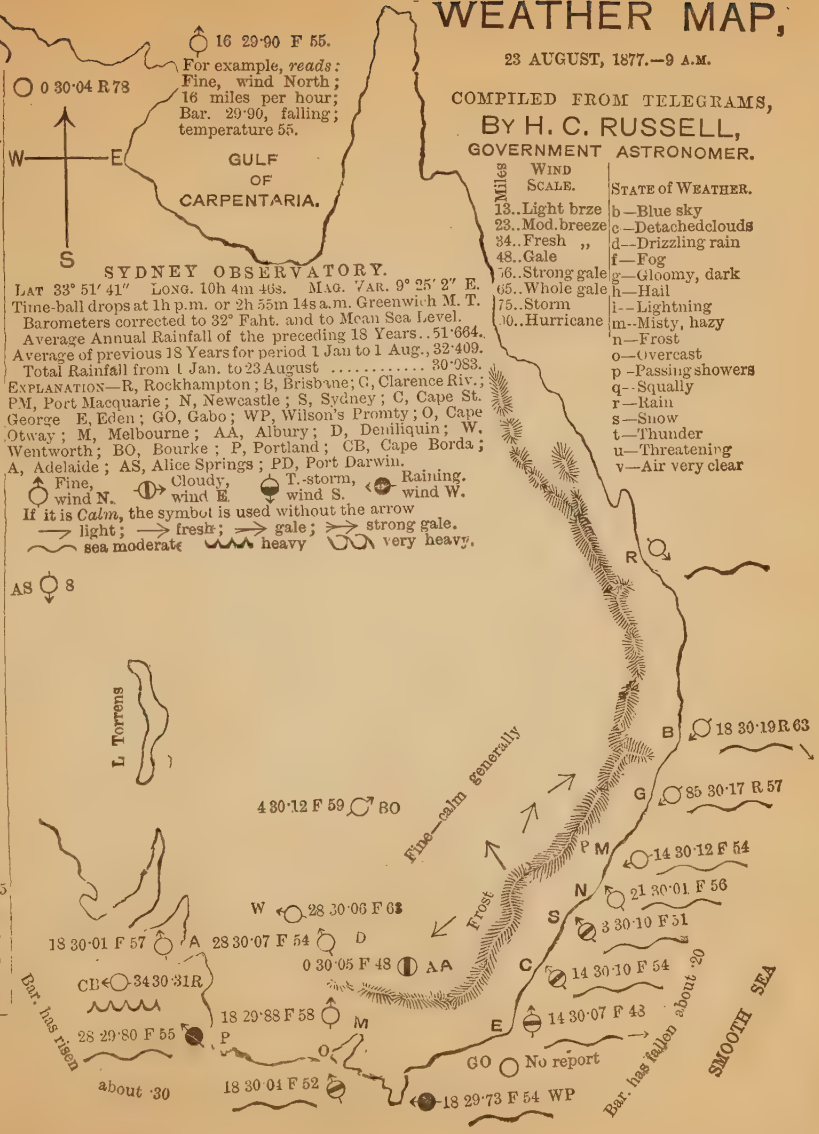
23 AUGUST, 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	b	66	35	0
Grafton ..	b	83	42	0
Inverell ..	b	67	31	0
Bourke ..	b	72	48	0
Narrabri ..	b	80	36	0
Armidale .	b	59	35	0
Gunnedah	b	77	33	0
Tamworth	b	69	31	0
P. Macqrie	b	66	45	0
Murr'undi	b	60	46	0
Cassilis ..	b	69	33	0
Mus'brook	b	67	34	0
Dubbo ..	b	65	40	0
Mudgee ..	..	..	..	..
Maitland ..	b	62	55	0
Newcastle	b	70	38	0
Orange ..	c	56	48	0
Bathurst ..	c	61	31	0
MtVictoria	o	51	34	0
Forbes ..	..	..	..	..
SYDNEY ..	c	60	46	0
Wentw'th.	b	73	42	0
Young ..	g	58	30	0
Woll'gong	..	..	.	..
Euston ..	b	70	48	0
Goulburn	c	60	33	0
Wagga ..	r	62	37	0
Cape Geo.	c	55	46	0
Queanb'an	c	60	36	0
Deniliquin	c	65	37	0
Albury ..	o	7	43	0·05
Bodalla ..	c	6	34	0
Cooma ..	n	59	28	0
Eden	c	59	46	0
Gabo Isld	..	..	..	..



WEATHER MAP,

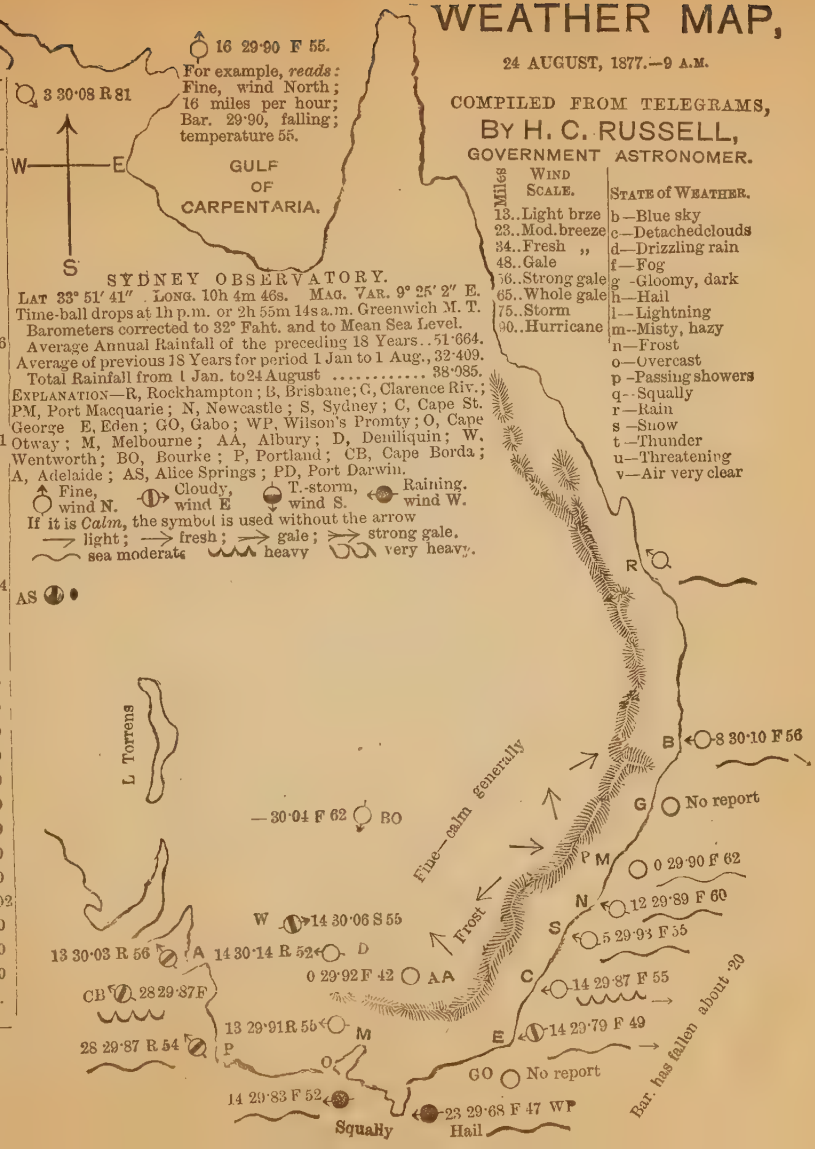
24 AUGUST, 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain
Tenterfi'ld	b	66	40	0
Grafton ..	b	81	48	0
Inverell ..	c	68	43	0
Bourke ..	b	82	59	0
Narrabri ..	b	85	47	0
Armidale .	b	60	40	0
Gunnedah	b	80	51	0
Tamworth	b	71	43	0·06
P. Macqrie	b	78	55	0
Murr'undi	b	65	55	0
Cassilis ..	..	..	..	..
Mus'brook	b	77	43	0·01
Dubbo ..	b	62	38	0
Mudgee ..	..	..	..	..
Maitland ..	b	64	57	0
Newcastle	b	70	40	0
Orange ..	b	56	42	0
Bathurst ..	b	63	36	0·24
Mt Victoria	o	56	40	0
Forbes ..	..	..	..	..
SYDNEY ..	b	60	50	0
Wentw'th.	g	74	40	0
Young ..	b	55	25	0
Woll'gong	b	63	58	0
Euston ..	b	75	38	0
Goulburn	b	61	32	0
Wagga ..	b	63	39	0
Cape Geo.	b	62	50	0
Queanb'an	b	58	38	0
Deniliquin	b	71	45	0
Albury ..	b	62	36	0·02
Bodalla ..	n	72	32	0
Cooma ..	n	66	31	0
Eden	c	60	45	0
Gabo Isld.	..	..	..	..



WEATHER MAP,

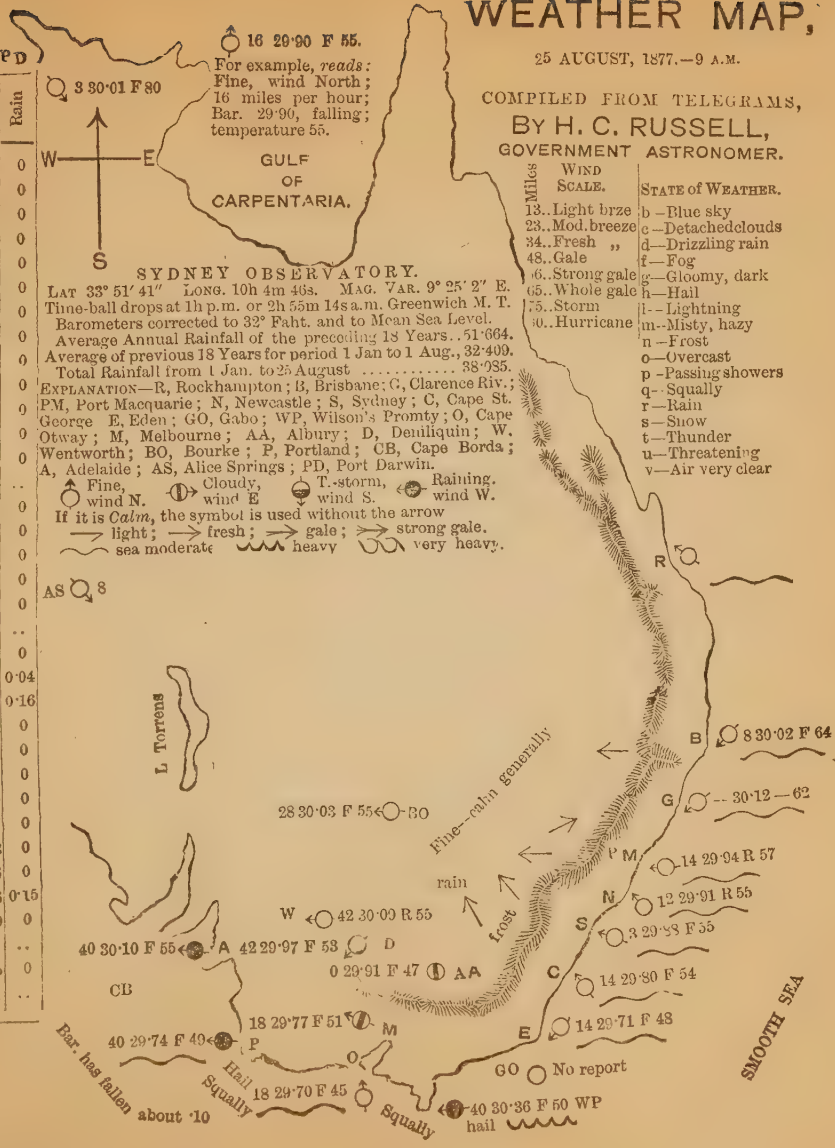
25 AUGUST, 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain
Tenterfield	b	71	30	0
Grafton ..	b	85	42	0
Inverell ..	b	72	36	0
Bourke ..	b	78	46	0
Narrabri ..	b	87	40	0
Armidale .	b	63	39	0
Gunnedah	b	86	34	0
Tamworth	b	73	30	0
P. Macqrie	b	74	47	0
Murr'undi	b	67	44	0
Cassilis ..	b	62	32	0
Mus'brook	b	72	36	0
Dubbo ..	b	65	40	0
Mudgee ..	..	..	..	..
Maitland ..	b	64	53	0
Newcastle	b	69	38	0
Orange ..	b	56	34	0
Bathurst ..	b	61	35	0
Mt Victoria	b	55	38	0
Forbes ..	..	..	..	..
SYDNEY ..	b	68	46	0
Wentw'th.	q	74	44	0·04
Young ..	r	62	22	0·16
Woll'gong	b	67	53	0
Euston ..	b	75	42	0
Goulburn	b	58	34	0
Wagga ..	r	70	39	0
Cape Geo.	b	66	47	0
Queanb'an	b	63	32	0
Deniliquin	b	67	46	0
Albury ..	g	67	36	0·15
Bodalla ..	n	73	29	0
Cooma ..	..	..	..	..
Eden	b	62	45	0
Gabo Isld.	..	..	..	..



WEATHER MAP,

27 AUGUST, 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain
Tenterfi'ld	b	63	28	0
Grafton ..	b	80	43	0
Inverell ..	b	69	29	0
Bourke ..	b	74	43	0
Narrabri ..	b	79	38	0
Armidale .	b	60	34	0
Gunnedah	b	81	35	0
Tamworth	b	68	30	0
P. Macqrie	b	66	41	0
Murr'undi	b	61	44	0
Cassilis ..	b	67	34	0
Mus'brook	b	74	36	0
Dubbo ..	b	66	38	0
Mudgee ..	..	..	..	..
Maitland ..	b	67	54	0
Newcastle	b	70	42	0
Orange ..	b	53	30	0
Bathurst ..	b	59	27	0·04
MtVictoria	b	53	32	0
Forbes ..	..	..	..	..
SYDNEY ..	c	66	52	0
Wentw'th.	c	75	44	0
Young ..	b	59	26	0
Woll'gong	..	..	..	..
Euston ..	b	77	34	0
Goulburn	o	55	31	0·20
Wagga ..	b	61	34	0
Cape Geo.	c	64	50	0
Queanb'an	c	59	32	0
Deniliquin	c	68	36	0
Albury ..	u	63	28	0·15
Bodalla ..	c	68	34	0
Cooma ..	p	64	34	0·01
Eden	c	60	47	0
Gabo Isld.	..	..	..	..

For example, *reads:* Fine, wind North; 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 18 Years..51·664.

Average of previous 18 Years for period 1 Jan to 1 Aug., 32·409.

Total Rainfall from 1 Jan. to 27 August ..... 38·985.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, Cloudy, T.-storm, Raining.
wind N. wind E wind S. wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.
sea moderate heavy very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER.

b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

PD

3 29·97 F 71

W E S

AS 0

L Torrens

0 30·18 R 53 BQ

Fine—calm generally

W 14 30·26 R 54

28 30·20 R 53 A 28 30·30 R 50 D

28 30·10 R 50 AA

CB 18 30·12 R

28 30·27 R 40 P

13 30·25 R 48 M

O

8 30·24 R 49

34 30·01 F 47 WP

GO No report

E 28 30·03 R 57

C 14 30·07 R 57

S 16 30·12 R 59

N 21 30·10 R 60

PM 14 30·13 R 55

G 14 30·18 R 56

B 8 30·21 R 56

R

Bar. has risen about ·50

SMOOTH SEA.

WEATHER MAP,

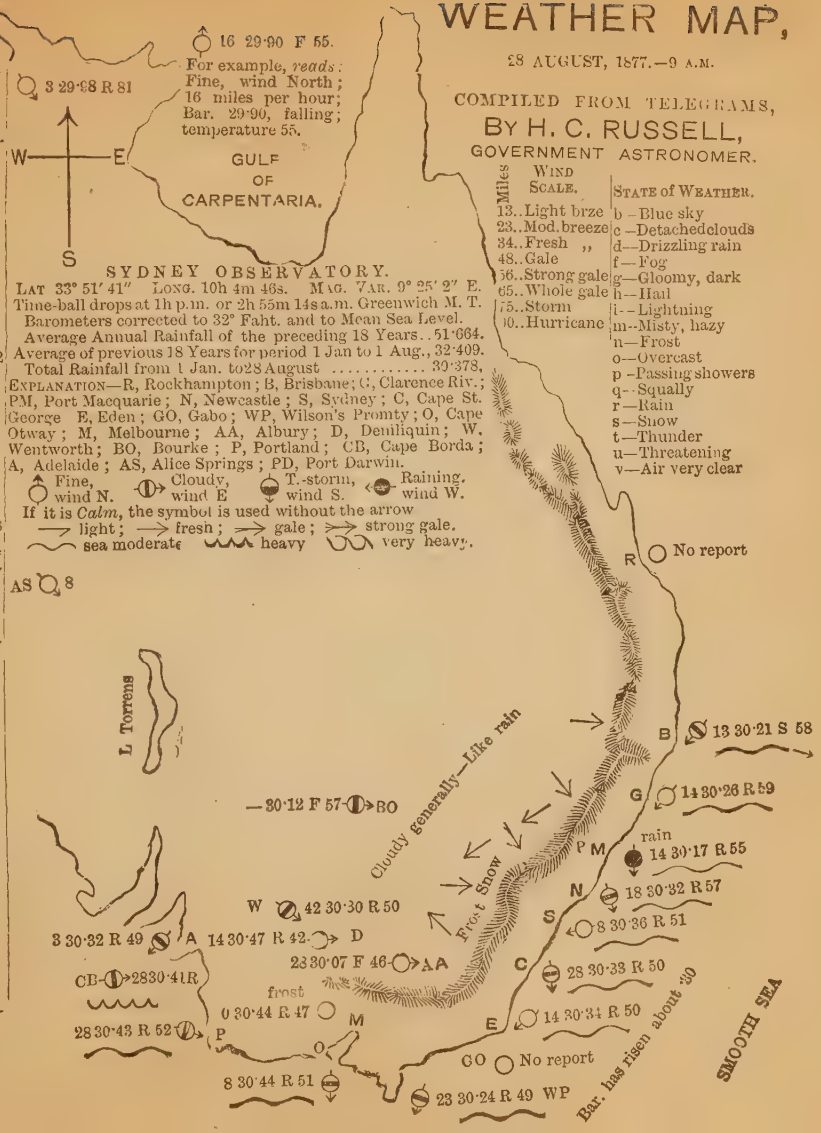
28 AUGUST, 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain
Tenterfi'ld	u	66	28	0
Grafton ..	u	83	40	0
Inverell ..	c	66	34	0
Bourke ..	u	79	50	0
Narrabri..	c	76	43	0
Armidale.	n	59	35	0
Gunnedah	g	81	44	0
Tamworth	g	71	40	0
P. Macqrie	r	72	50	0·02
Murr'undi	u	65	48	0
Cassilis ..	c	69	44	0
Mus'brook	g	74	48	0
Dubbo ..	n	62	38	0
Mudgee ..	..	..	..	..
Maitland..	u	65	52	0
Newcastle	g	77	43	0·08
Orange ..	o	58	34	0·04
Bathurst..	u	65	39	0·07
MtVictoria	u	57	34	0
Forbes ..	..	..	..	..
SYDNEY ..	g	68	49	0·27
Wentw'th.	c	66	46	0
Young ..	u	63	34	0
Woll'gong	..	..	..	..
Euston ..	g	67	34	0
Goulburn	b	62	49	0
Wagga ..	c	63	40	0
Cape Geo.	c	55	49	0
Queanb'an	c	61	30	0
Deniliquin	b	60	37	0
Albury ..	b	64	39	0
Bodalla ..	fc	63	31	0
Cooma ..	f	56	26	0
Eden	b	60	43	0
Gabo Isld.	..	..	..	..



WEATHER MAP,

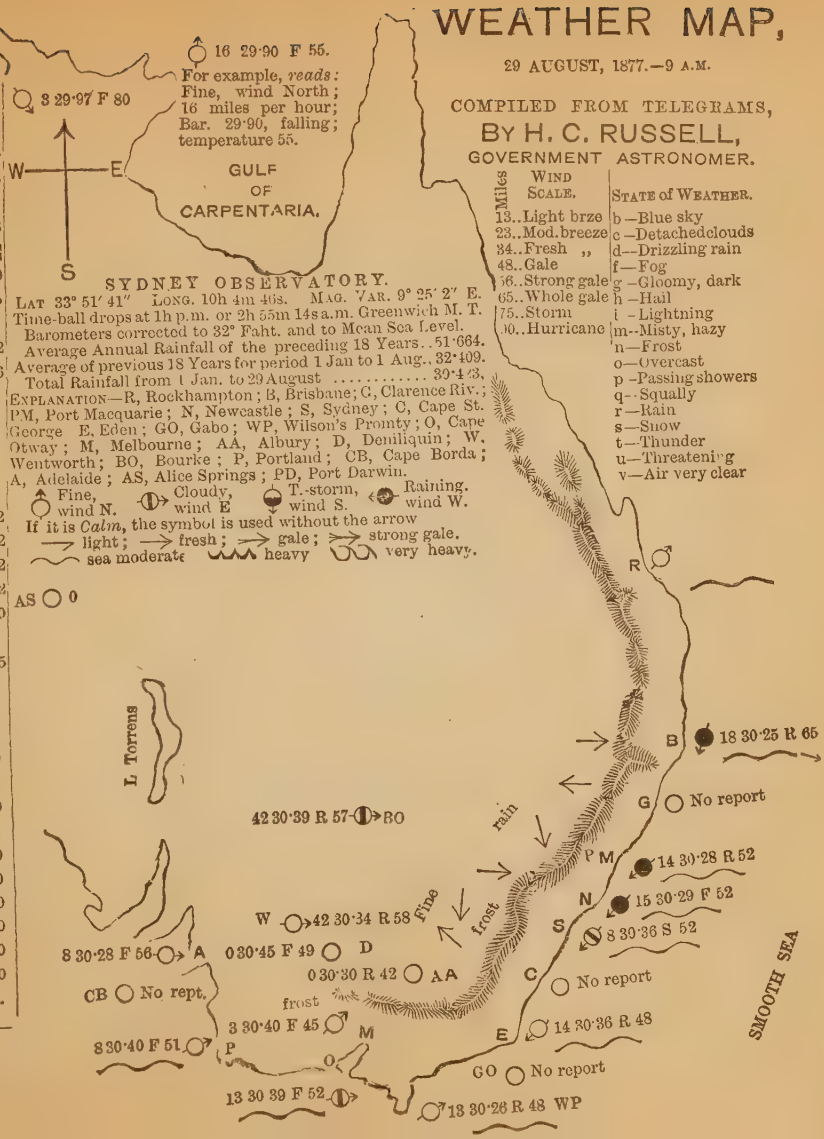
29 AUGUST, 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	r	58	42	0·08
Grafton ..	..	..	..	..
Inverell ..	r	62	41	0·08
Bourke ..	c	74	40	0·[illegible]
Narrabri..	r	69	50	0·29
Armidale.	r	58	33	0·45
Gunnedah	..	..	..	..
Tamworth	r	66	39	0·42
P. Macqrie	r	59	50	0·36
Murr'undi	u	54	49	0
Cassilis ..	u	57	48	0
Mus'brook	g	63	45	0
Dubbo ..	g	64	39	0
Mudgee ..	..	..	..	..
Maitland..	d	61	58	0·02
Newcastle	r	72	41	0·32
Orange ..	c	53	30	0·02
Bathurst..	c	55	34	0·02
MtVictoria	g	46	35	0·20
Forbes ..	..	..	..	..
SYDNEY ..	g	58	46	0·05
Wentw'th.	b	61	42	0
Young ..	b	56	31	0
Woll'gong	..	..	..	..
Euston ..	b	62	40	0
Goulburn	..	..	..	..
Wagga ..	g	61	40	0
Cape Geo.	..	..	..	..
Queanb'an	n	58	32	0
Deniliquin	b	63	44	0
Albury ..	b	58	29	0
Bodalla ..	n	64	30	0
Ccoma ..	n	61	18	0
Eden	b	59	41	0
Gabo Isld.	..	..	..	..



WEATHER MAP,

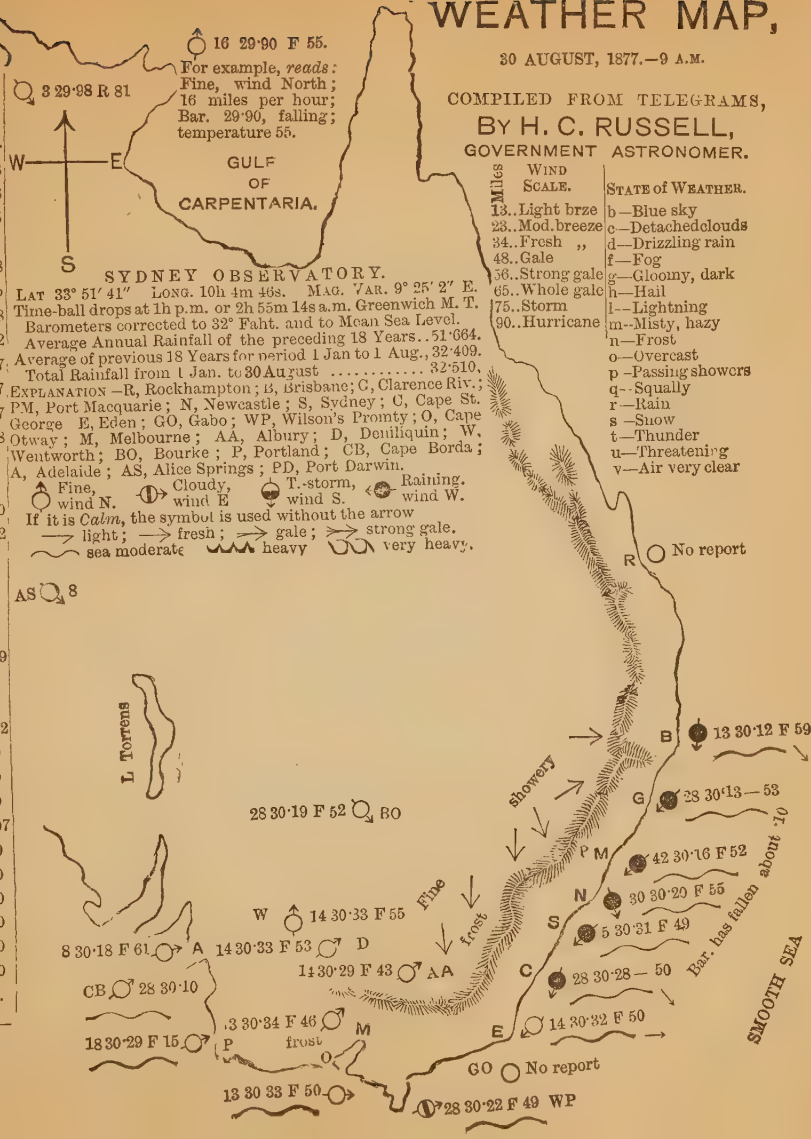
30 AUGUST, 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain
Tenterfi'ld	p	51	43	0·38
Grafton ..	r	58	36	0·66
Inverell ..	g	54	42	0·25
Bourke ..	c	75	48	0
Narrabri ..	c	54	47	0·43
Armidale .	d	57	34	1·75
Gunnedah	p	52	45	0·78
Tamworth	g	58	42	0·92
P. Macqrie	p	55	49	1·27
Murr'undi	p	52	48	0·67
Cassilis ..	r	51	46	0·47
Mus'brook	g	56	46	0·38
Dubbo ..	b	64	40	0
Mudgee ..	..	..	..	..
Maitland ..	c	60	58	0·80
Newcastle	r	71	40	0·92
Orange ..	b	38	27	0
Bathurst ..	b	55	30	0
Mt Victoria	..	..	..	..
Forbes ..	..	..	..	..
SYDNEY ..	p	56	47	2·09
Wentw'th.	b	72	42	0
Young ..	b	62	29	0
Woll'gong	c	64	55	0·62
Euston ..	b	71	31	0
Goulburn	c	55	0	0
Wagga ..	b	61	37	0
Cape Geo.	p	57	46	0·07
Queanb'an	b	60	33	0
Deniliquin	b	65	39	0
Albury ..	b	60	31	0
Bodalla ..	f	68	31	0
Cooma ..	f	63	31	0
Eden	c	60	43	0
Gabo Isld.	..	..	..	..



WEATHER MAP,

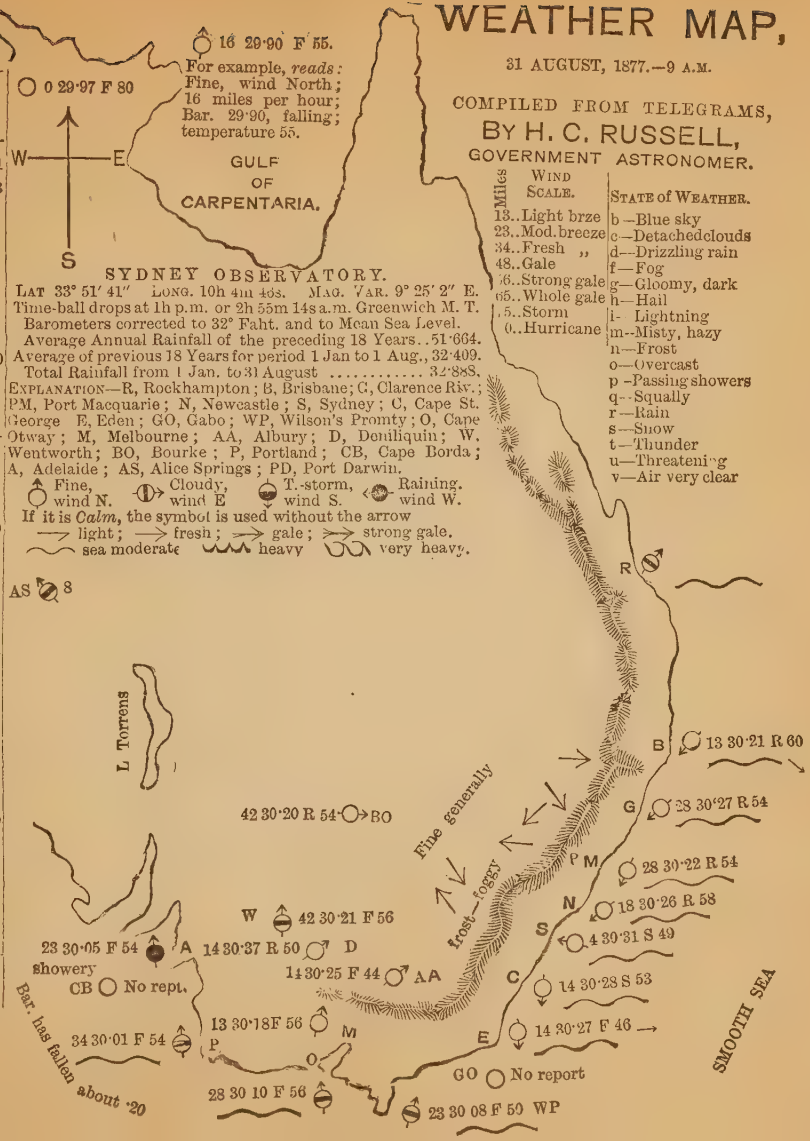
31 AUGUST, 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfield	c	49	32	0·01
Grafton ..	b	61	43	0·03
Inverell ..	b	61	35	0
Bourke ..	b	69	46	0
Narrabri..	b	72	45	0
Armidale .	c	57	38	0
Gunnedah	b	64	40	0
Tamworth	b	60	33	0
P. Macqrie	b	57	45	0·10
Murr'undi	b	55	44	0
Cassilis ..	b	57	33	0
Mus'brook	b	60	35	0·01
Dubbo ..	b	63	41	0
Mudgee ..	..	..	..	..
Maitland..	c	60	55	0
Newcastle	c	73	41	0·20
Orange ..	n	54	24	0
Bathurst..	b	58	29	0
Mt Victoria	u	44	34	0
Forbes ..	..	..	..	..
SYDNEY ..	c	57	47	0·38
Wentw'th.	o	75	42	0
Young ..	b	56	26	0
Woll'gong	b	64	54	0
Euston ..	c	73	44	0
Goulburn	f	75	0	0
Wagga ..	n	64	35	0
Cape Geo.	c	55	49	0·20
Queanb'an	b	60	34	0
Deniliquin	b	60	39	0
Albury ..	b	70	31	0
Bodalla ..	n	63	27	0
Ccoma ..	fn	61	20	0
Eden	b	60	40	0
Gabo Isld.	.	..	..	..



WEATHER MAP,

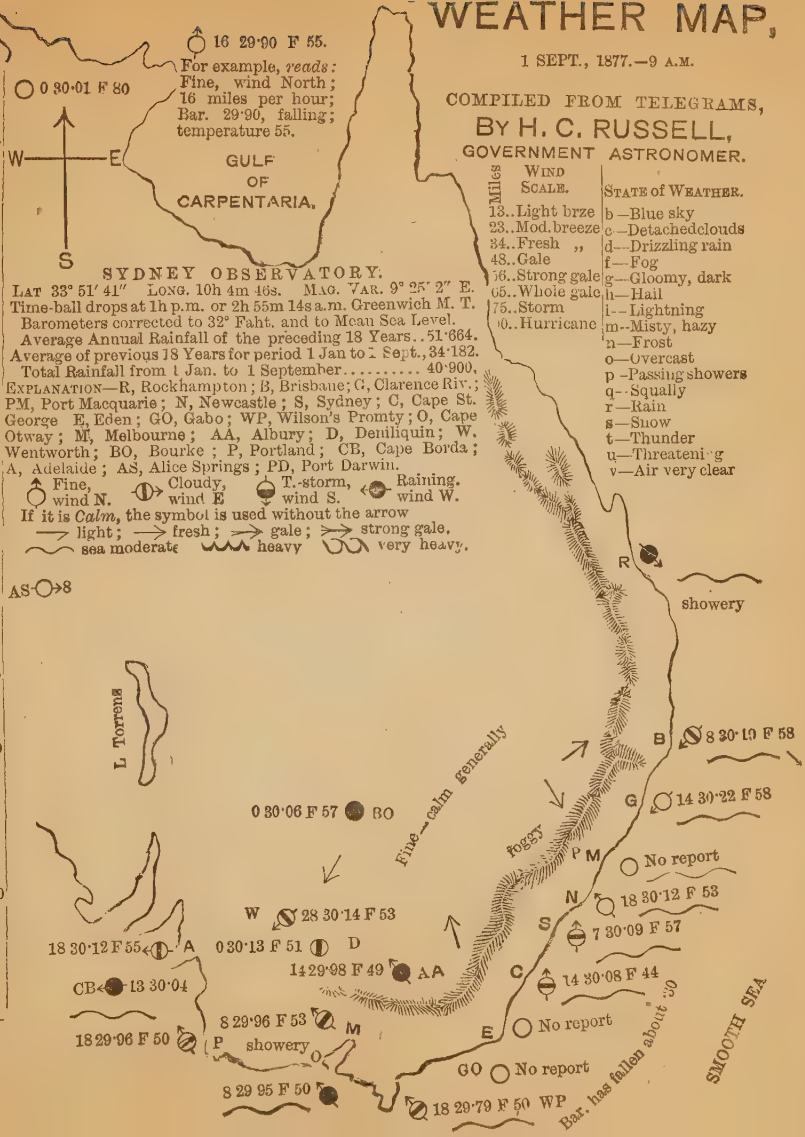
1 SEPT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	c	58	39	0
Grafton ..	c	72	43	0
Inverell ..	o	64	35	0
Bourke ..	n	76	52	0·10
Narrabri..	o	86	45	0
Armidale.	b	61	39	0
Gunnedah	o	72	42	0
Tamworth	b	62	38	0
P. Macqrie	..	..	..	..
Murr'undi	b	60	41	0
Cassilis ..	o	55	33	0
Mus'brook	b	66	35	0
Dubbo ..	c	64	41	0
Mudgee ..	..	..	..	..
Maitland..	f	61	51	0
Newcastle	b	68	41	0
Orange ..	c	56	29	0
Bathurst..	o	63	31	0
MtVictoria	o	54	33	0
Forbes ..	..	..	..	..
SYDNEY ..	c	59	47	0·01
Wentw'th.	b	59	46	0·19
Young ..	c	61	29	0
Woll'gong	b	67	57	0
Euston ..	b	68	49	0·20
Goulburn	o	64	0	0
Wagga ..	r	65	39	0
Cape Geo.	c	57	49	0
Queanb'an	o	62	39	0
Deniliquin	u	70	48	0
Albury ..	r	70	41	0·10
Bodalla ..	c	65	34	0
Cooma ..	c	61	33	0
Eden	..	..	..	..
Gabo Isld.	.	..	..	..



WEATHER MAP,

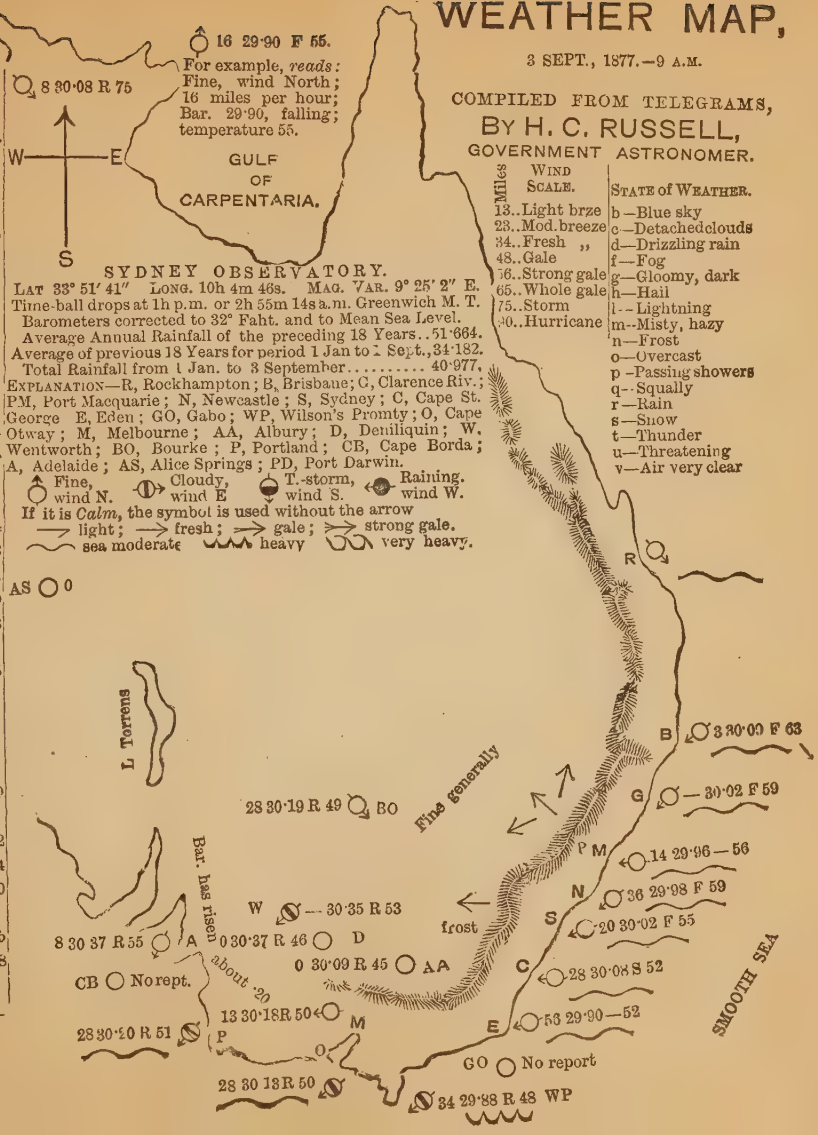
3 SEPT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterfi'ld	..	.	..	..
Grafton ..	b	80	42	0
Inverell ..	..	..	..	..
Bourke ..	b	68	43	0·50
Narrabri ..	..	..	.	..
Armidale .	b	59	37	0
Gunnedah	..	..	.	..
Tamworth	..	..	..	..
P. Macqrie	b	67	42	0
Murr'undi	c	69	49	0
Cassilis ..	b	59	43	0
Mus'brook	b	66	43	0·11
Dubbo ..	b	63	41	0·48
Maitland ..	b	66	58	0
Newcastle	b	71	43	0
Orange ..	c	58	28	0·14
Bathurst ..	b	57	38	0·42
Mt Victoria	b	50	34	0·21
Forbes ..	b	59	41	1·00
SYDNEY ..	b	64	52	0·08
Wentw'th.	c	68	57	0
Young ..	c	58	28	0·05
Woll'gong	b	63	58	0
Moss Vale	b	55	37	0
Euston ..	b	63	40	0
Goulburn	b	61	0	0
Wagga ..	b	59	32	0·40
Cape Geo.	c	63	48	0
Queanb'an	b	59	30	0·02
Deniliquin	b	65	36	0·04
Albury ..	b	58	33	0·50
Bodalla ..	b	68	41	0
Cooma ..	n	64	30	0·05
Eden	b	59	40	0·08
Gabo Isld.	.	..	..	..



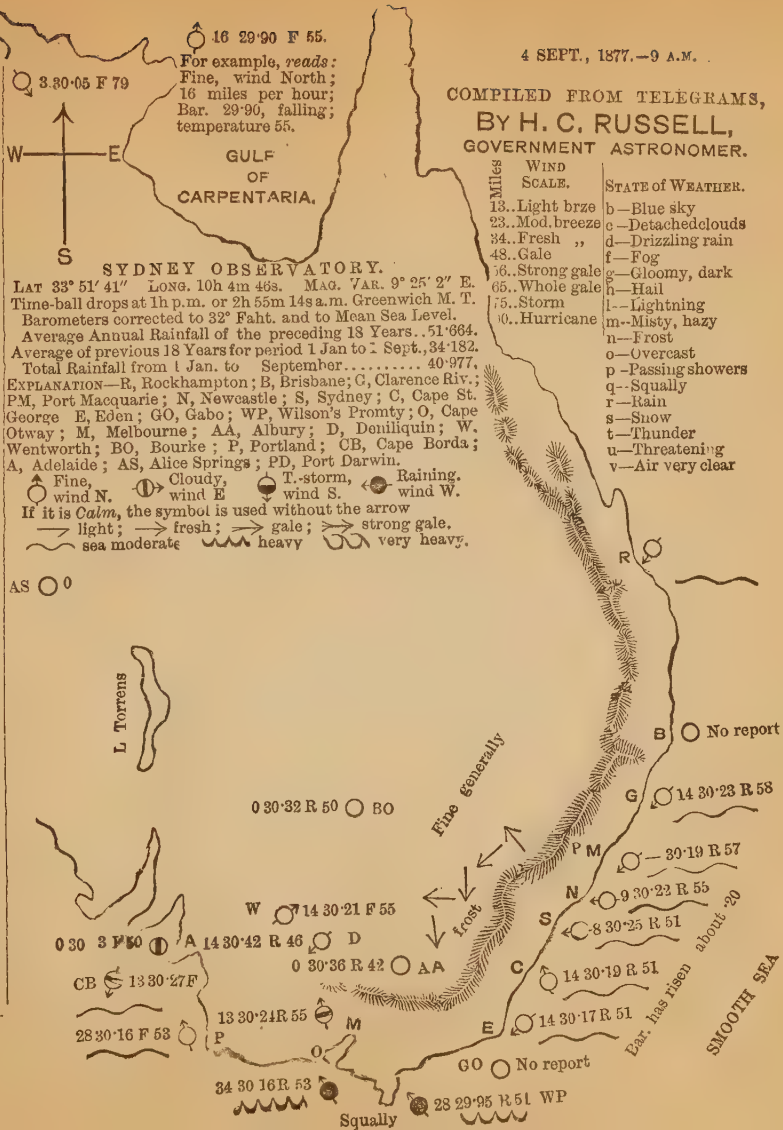
4 SEPT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	b	61	40	0
Grafton ..	..	..	..	..
Inverell ..	b	64	33	0
Bourke ..	b	61	42	0
Narrabri..	b	74	38	0
Armidale.	b	58	35	0
Gunnedah	..	..	..	..
Tamworth	b	67	33	0
P. Macqrie	b	68	45	0
Murr'undi	b	62	43	0
Cassilis ..	b	62	34	0
Mus'brook	b	66	37	0
Dubbo ..	b	63	38	0
Maitland..	b	65	52	0
Newcastle	b	72	45	0
Orange ..	b	50	26	0
Bathurst..	..	..	..	..
MtVictoria	..	..	..	..
Forbes ..	b	61	44	0
SYDNEY ..	b	62	45	0
Wentw'th.	b	67	37	0
Young ..	b	54	0	0
Woll'gong	b	67	43	0
Moss Vale	n	53	35	0
Euston ..	b	67	30	0
Goulburn	b	61	0	0
Wagga ..	b	60	35	0
Cape Geo.	c	57	48	0
Queanb'an	n	57	30	0
Deniliquin	b	59	35	0
Albury ..	c	59	33	0
Bodalla ..	n	69	29	0
Cooma ..	n	62	21	0
Eden	b	58	44	0
Gabo Isld.	..	..	..	..



WEATHER MAP,

5 SEPT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain
Tenterfi'ld	b	61	40	0
Grafton ..	b	83	42	0
Inverell ..	b	66	35	0
Bourke ..	b	61	45	0
Narrabri..	b	81	42	0
Armidale.	b	60	33	0
Gunnedah	b	72	36	..
Tamworth	b	68	33	0
P. Macqrie	b	66	46	0
Murr'undi	b	65	43	0
Cassilis ..	b	67	33	0
Mus'brook	b	70	39	0
Dubbo ..	b	63	41	0
Maitland..	b	62	51	0
Newcastle	b	75	44	0
Orange ..	n	40	24	0
Bathurst..	n	65	26	0
MtVictoria	b	59	37	0
Forbes ..	b	65	46	0
SYDNEY ..	b	65	46	0
Wentw'th.	b	73	41	0
Young ..	b	59	21	0
Woll'gong	b	64	58	0
Moss Vale	b	61	33	0
Euston ..	b	73	36	0
Goulburn	b	61	0	0
Wagga ..	n	61	39	0
Cape Geo.	b	59	50	0
Queanb'an	b	63	33	0
Deniliquin	b	64	40	0
Albury ..	b	65	33	0
Bodalla ..	n	68	30	0
Cooma ..	n	71	20	0
Eden	b	59	44	0
Gabo Isld.	..	..	..	..

For example, *reads:* Fine, wind North; 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664.
Average of previous 18 Years for period 1 Jan to 1 Sept.,34·182.
Total Rainfall from 1 Jan. to 5 September..... 40·977.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate heavy very heavy.

WIND SCALE.

Miles	
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
6..	Strong gale
65..	Whole gale
5..	Storm
0..	Hurricane

STATE of WEATHER.

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

PD 3 30·14 R 81

W E S

AS 8

L Torrens

Bar. has fallen about ·10

0 30·32 S 50 BO

W 14 30·32 R 60

13 30·23 F 63 A 14 30·41 S 52 D

14 30·31 F 49 AA

CB 13 30·15 F

18 30·18 F 56 M

34 30·10 F 56 P O

28 30·09 F 56

18 29·96 F 55 WP

GO No report

E 14 30·21 R 49

C 14 30·27 R 55

S 6 30·32 R 52

N 18 30·31 R 57

PM 14 30·28 R 57

G 30·35 R 62

B 13 30·38 — 68

R

Fine generally

frost

frost

Bar. has risen about ·10

SMOOTH SEA

WEATHER MAP,

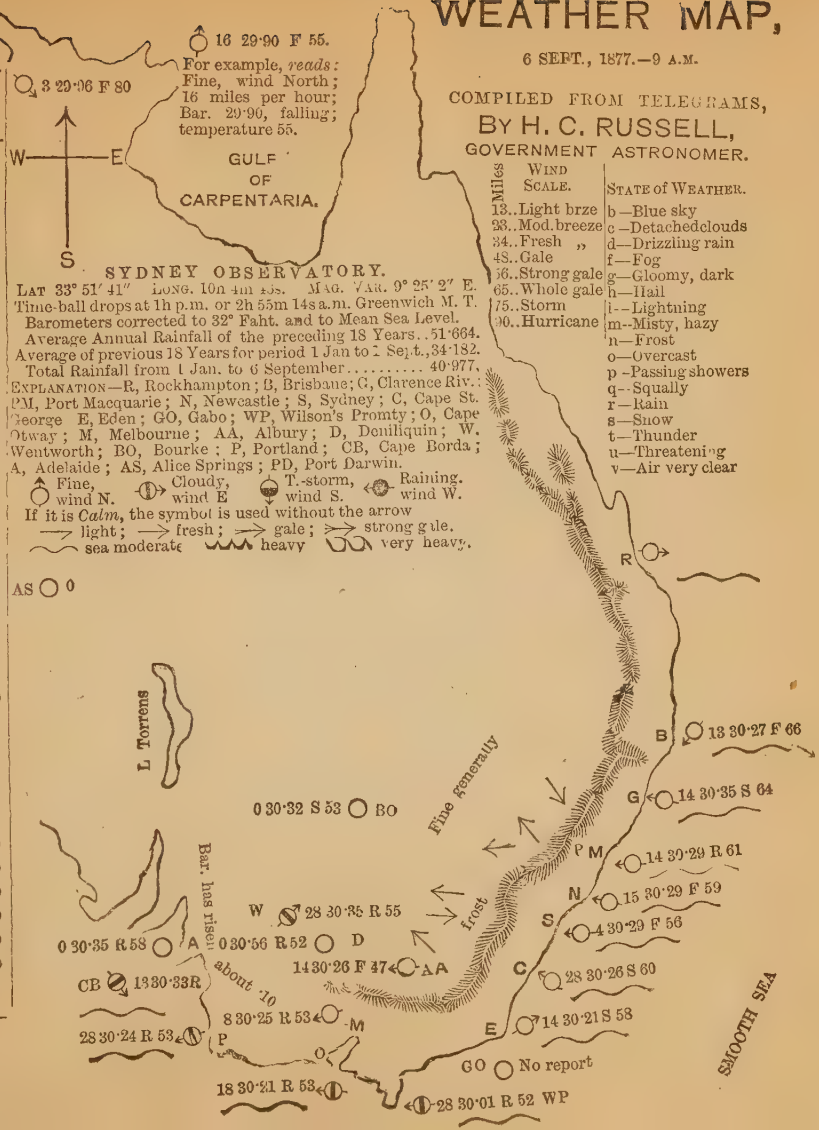
6 SEPT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain
Tenterfi'ld	b	64	37	0
Grafton ..	b	85	50	0
Inverell ..	b	69	38	0
Bourke ..	b	75	45	0
Narrabri..	b	86	42	0
Armidale.	b	62	35	0
Gunnedah	b	78	37	0
Tamworth	b	70	34	0
P. Macqrie	b	68	46	0
Murr'undi	b	54	48	0
Cassilis ..	b	72	34	0
Mus'brook	b	74	38	0
Dubbo ..	b	64	41	0
Maitland..	b	67	52	0
Newcastle	b	75	42	0
Orange ..	n	59	24	0
Bathurst..	b	68	28	0
MtVictoria	b	60	32	0
Forbes ..	b	61	43	0
SYDNEY ..	b	68	49	0
Wentw'th.	c	83	45	0
Young ..	b	65	33	0
Woll'gong	b	62	49	0
Moss Vale	b	61	38	0
Euston ..	b	82	40	0
Goulburn	b	65	38	0
Wagga ..	b	67	40	0
Cape Geo.	b	64	52	0
Queanb'an	b	66	34	0
Deniliquin	b	72	46	0
Albury ..	c	72	33	0
Bodalla ..	b	73	33	0
Ccoma ..	n	71	28	0
Eden	b	60	48	0
Gabo Isld.	..	..	..	..

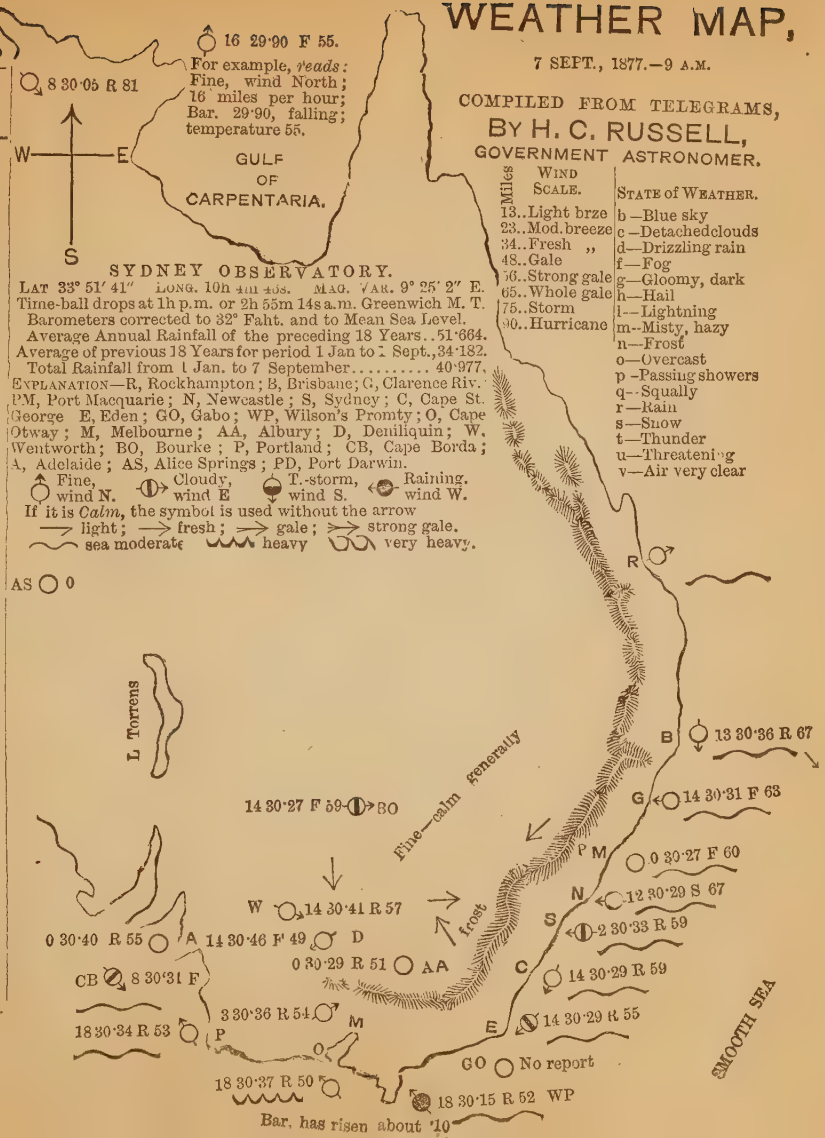


WEATHER MAP,

7 SEPT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain
Tenterfi'ld	b	69	35	0
Grafton ..	b	86	47	0
Inverell ..	b	74	38	0
Bourke ..	c	81	48	0
Narrabri..	b	87	46	0
Armidale.	b	63	38	0
Gunnedah	b	83	38	0
Tamworth	b	74	35	0
P. Macqrie	b	71	47	0
Murr'undi	b	69	45	0
Cassilis ..	b	64	35	0
Mus'brook	b	77	38	0
Dubbo ..	b	65	39	0
Maitland..	b	68	54	0
Newcastle	b	77	47	0
Orange ..	n	67	27	0
Bathurst..	b	71	36	0
MtVictoria	b	65	42	0
Forbes ..	b	68	42	0
SYDNEY ..	c	75	51	0
Wentw'th.	b	80	43	0
Young ..	b	70	31	0
Woll'gong	b	70	66	0
Moss Vale	b	67	44	0
Euston ..	b	82	40	0
Goulburn	b	71	35	0
Wagga ..	b	71	40	0
Cape Geo.	c	70	55	0
Queanb'an	b	71	36	0
Deniliquin	b	79	37	0
Albury ..	b	76	35	0
Bodalla ..	g	84	41	0
Cooma ..	n	73	27	0
Eden	u	64	51	0
Gabo Isld.	..	..	..	..



WEATHER MAP,

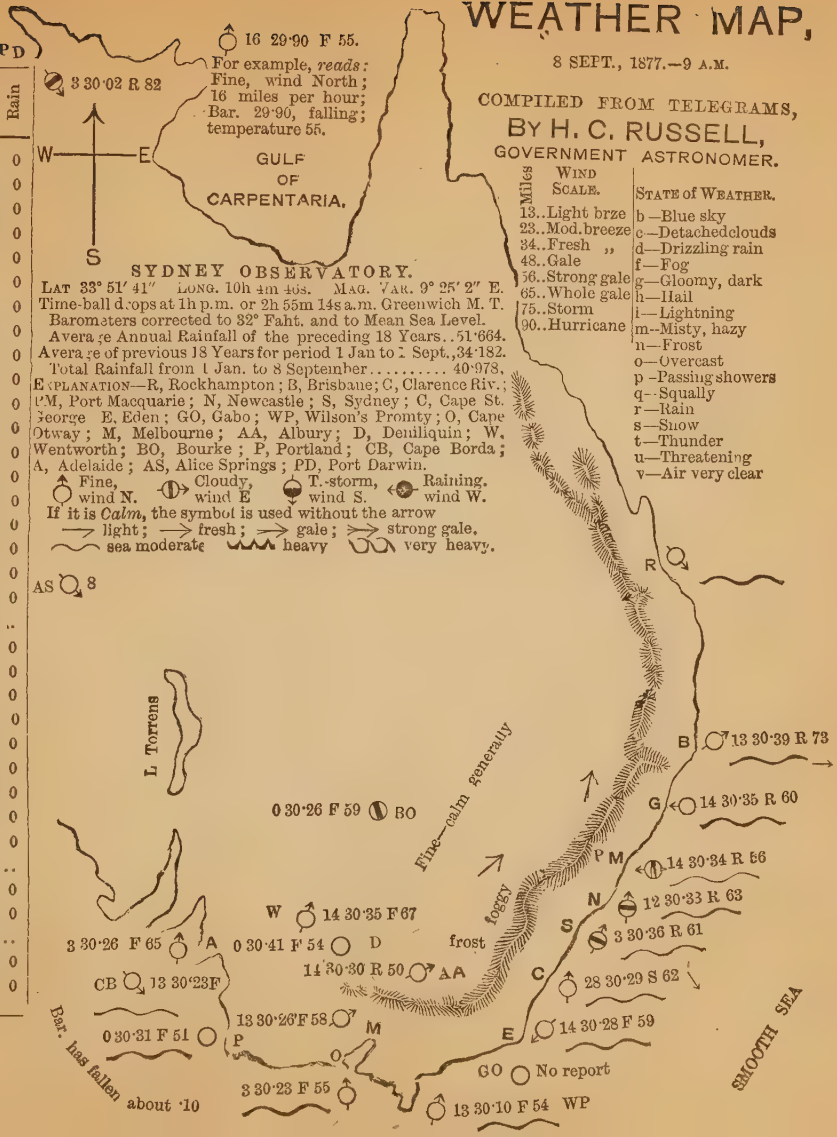
8 SEPT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain
Tenterfi'ld	b	71	40	0
Grafton ..	c	90	45	0
Inverell ..	b	73	42	0
Bourke ..	c	82	52	0
Narrabri ..	c	86	51	0
Armidale .	o	60	42	0
Gunnedah	b	85	46	0
Tamworth	o	72	47	0
P. Macqrie	c	73	47	0
Murr'undi	c	70	45	0
Cassilis ..	b	74	43	0
Mus'brook	c	78	49	0
Dubbo ..	b	65	41	0
Mudgee ..	c	84	43	0
Maitland ..	o	66	57	0
Newcastle	c	72	43	0
Orange ..	b	65	33	0
Bathurst ..	b	55	36	0
MtVictoria	b	68	42	0
Forbes ..	..	..	..	..
SYDNEY ..	c	67	55	0
Wentw'th.	b	76	43	0
Young ..	b	71	31	0
Woll'gong	b	66	58	0
Moss Vale	b	68	49	0
Euston ..	b	79	45	0
Goulburn	f	73	31	0
Wagga ..	b	70	38	0
Cape Geo.	b	65	57	0
Queanb'an	..	..	..	..
Deniliquin	b	72	41	0
Albury ..	b	75	36	0
Bodalla ..	..	..	..	..
Eden	b	65	52	0



WEATHER MAP.

10 SEPT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	c	72	35	0
Grafton ..	g	56	51	0
Inverell ..	o	59	53	0
Bourke ..	r	88	55	0·14
Narrabri ..	c	87	56	0
Armidale .	c	65	43	0
Gunnedah	..	.	..	..
Tamworth	u	80	50	0
P. Macqrie	g	73	54	0
Murr'undi	g	71	51	0
Cassilis ..	b	70	49	0
Mus'brook	g	82	50	0
Dubbo ..	u	75	43	0
Mudgee ..	u	83	53	0·03
Maitland..	c	71	59	0
Newcastle	b	84	49	0
Orange ..	c	64	32	0·03
Bathurst..	o	77	33	0
MtVictoria	u	69	45	0
Forbes ..	..	..	..	..
SYDNEY ..	c	76	60	0
Wentw'th.	u	62	48	0·07
Young ..	c	76	46	0·03
Woll'gong	c	67	55	0
Moss Vale	c	72	50	0
Euston ..	..	..	..	..
Goulburn	r	78	52	0·27
Wagga ..	r	76	40	0·03
Cape Geo.	u	72	58	0
Queanb'an	r	75	41	0·38
Deniliquin		78	41	0·51
Albury ..	r	79	47	0·52
Bodalla ..	..	..	..	..
Cooma ..	r	76	39	0·57
Eden	r	65	53	0·47

16 29·90 F 55.
For example, *reads:* Fine, wind North; 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E
S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.
LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664.
Average of previous 18 Years for period 1 Jan to 1 Sept.,34·182.
Total Rainfall from 1 Jan. to 10 September ..... 40·981.
EXPLANATION —R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
light; fresh; gale; strong gale.
sea moderate heavy very heavy.

Miles	Wind Scale.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER.
b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

PD
AS
CB
L Torrens
R
B 13 30·36 F 66
G 14 30·30 F 63
14 30·20 F 58 BO
Cloudy generally
PM 0 30·29 F 57
N 15 30·27 F 66
S 8 30·32 F 63
W 28 30·39 R 50
A 0 30·31 F 51 D rain
28 30·26 F 55 AA
C 42 30·20 R 55
18 30·36 R 54 M
34 30·46 R 54 P
E 28 30·29 R 55
O
GO No report
34 30·45 R 52
34 30·32 R 51 WP
SMOOTH SEA

Bar. has risen about ·20

WEATHER MAP,

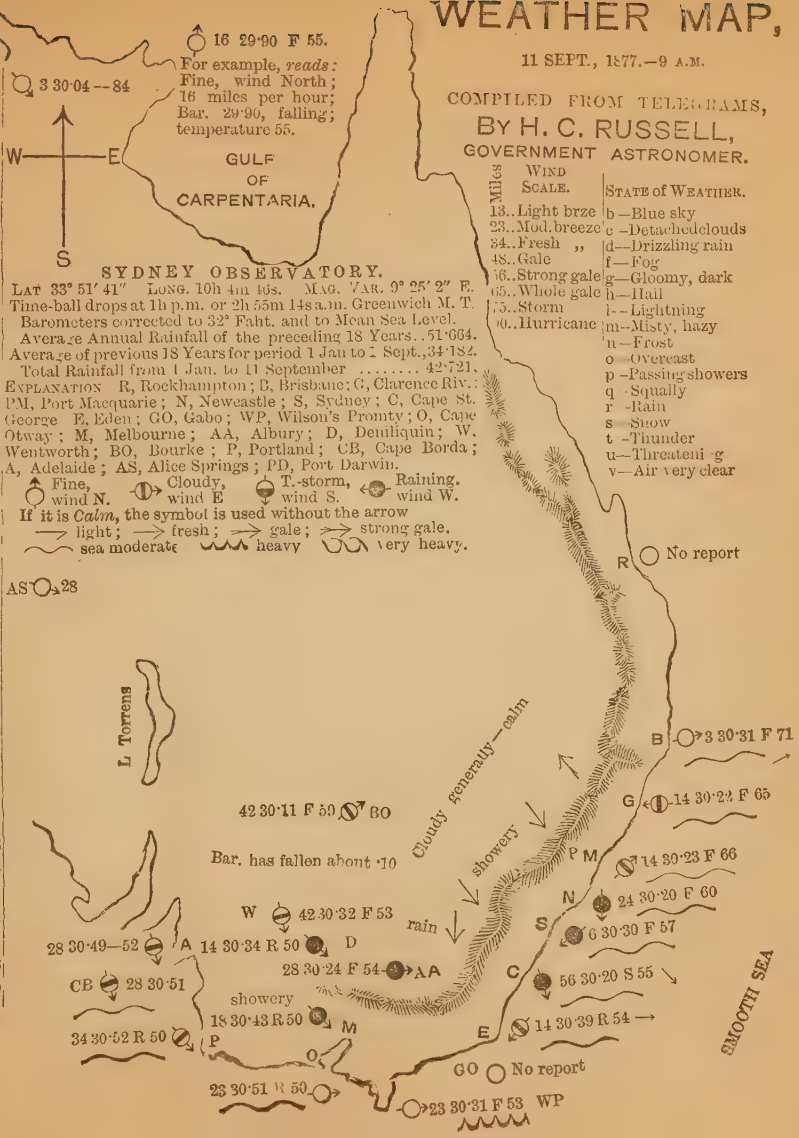
11 SEPT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain
Tenterfi'ld	g	67	40	0
Grafton ..	g	62	51	0
Inverell ..	g	75	43	0
Bourke ..	u	64	57	0·52
Narrabri..	r	87	57	0
Armidale.	g	63	47	0
Gunnedah	p	84	57	0·02
Tamworth	u	78	55	0
P. Macqrie	c	73	60	0
Murr'undi	u	70	57	0·17
Cassilis ..	c	72	55	0·10
Mus'brook	c	81	57	0·13
Dubbo ..	u	72	48	0·15
Mudgee ..	u	73	51	0·29
Maitland..	d	72	61	0·10
Newcastle	r	82	49	0·05
Orange ..	g	56	42	0·23
Bathurst..	u	68	49	0·20
MtVictoria	..	..	..	..
Forbes ..	..	..	..	..
SYDNEY ..	r	71	57	1·74
Wentw'th.	g	60	49	0
Young ...	r	63	26	0·60
Woll'gong	r	74	68	1·00
Moss Vale	r	65	47	0·92
Euston ..	u	61	47	0·92
Goulburn	r	57	..	0·85
Wagga ..	g	59	50	0·10
Cape Geo.	r	61	53	0·52
Queanb'an	p	58	49	0·75
Deniliquin	p	57	48	0
Albury ...	p	54	46	0·91
Bodalla ...	..	..	..	..
Cooma ..	g	50	42	0·98
Eden	g	57	52	1·09



WEATHER MAP,

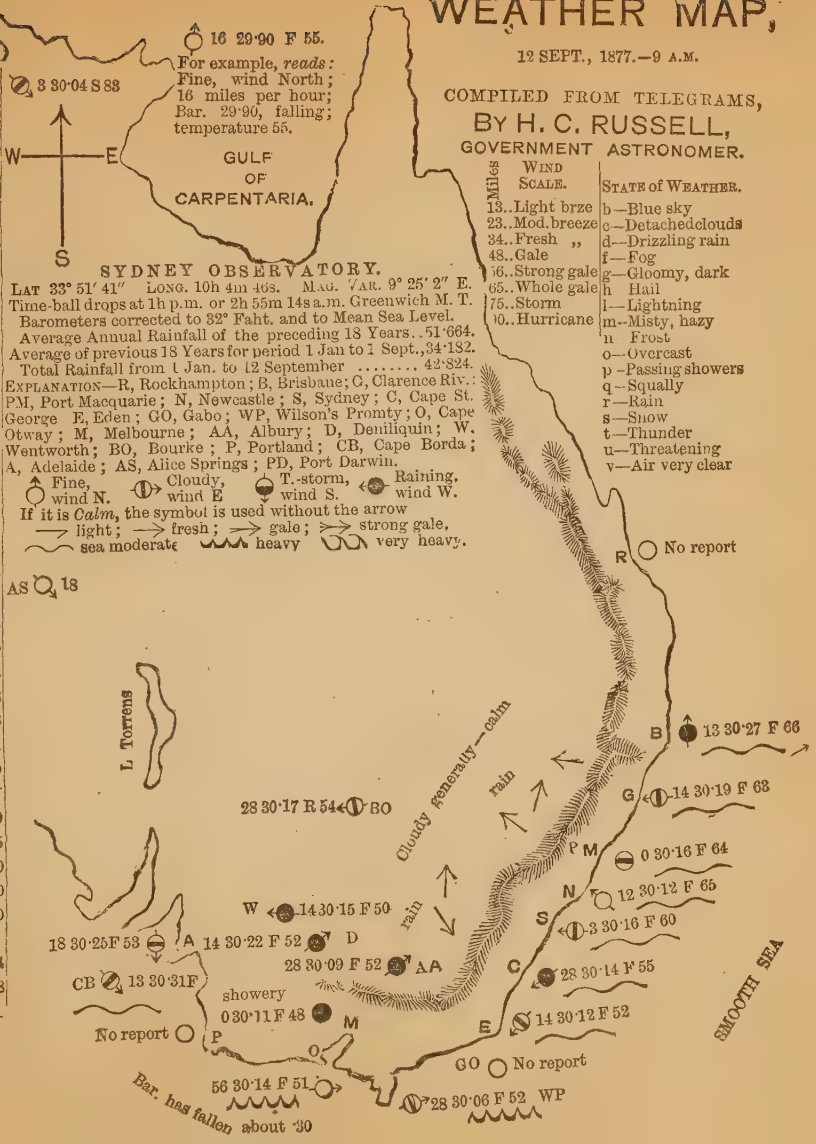
12 SEPT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	r	70	50	0·08
Grafton ..	g	68	50	0
Inverell ..	r	75	54	0·75
Bourke ..	g	70	50	0·02
Narrabri ..	p	66	57	0·83
Armidale ..	r	60	48	0·16
Gunnedah ..	..	64	56	0·46
Tamworth	d	61	54	0·53
P. Macqrie	c	72	59	0·05
Murr'undi	r	67	57	0
Cassilis ..	p	70	51	0·09
Mus'brook	c	71	56	0
Dubbo ..	c	72	50	0·41
Mudgee ..	p	65	55	0·34
Maitland ..	u	61	53	0·18
Newcastle	c	77	46	0·75
Orange ..	g	58	42	0
Bathurst ..	c	62	49	0·10
Mt Victoria	..	..	..	..
Forbes ..	c	69	57	0·13
SYDNEY ..	g	62	56	0·10
Wentw'th.	p	57	47	0·63
Young ..	c	53	44	0·58
Woll'gong	r	69	65	0·16
Moss Vale	r	59	48	0·21
Euston ..	r	68	48	0·80
Goulburn	r	58	44	0·47
Wagga ..	g	60	50	0·29
Cape Geo.	p	58	53	2·15
Queanb'an	p	56	48	0·20
Deniliquin	r	60	49	0·80
Albury ..	p	62	46	0 30
Bodalla ..	..	..	.	..
Cooma ..	r	46	41	0·54
Eden	u	57	51	0·08



WEATHER MAP,

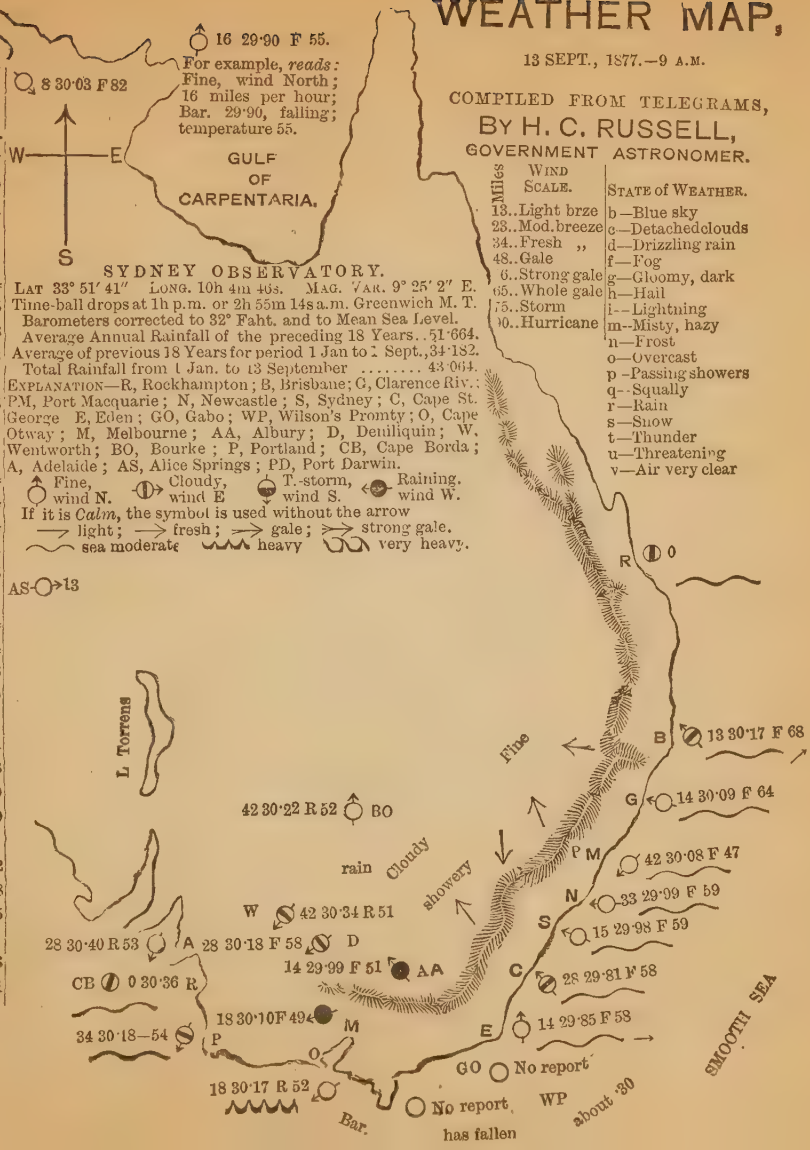
13 SEPT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	b	63	45	0·67
Grafton ..	b	74	54	0·30
Inverell ..	b	69	44	0·71
Bourke ..	b	63	46	0
Narrabri..	u	66	46	0
Armidale.	b	59	44	0·24
Gunnedah	c	65	41	0·05
Tamworth	c	69	44	0·18
P. Macqrie	b	69	53	0·02
Murr'undi	c	65	51	0
Cassilis ..	c	61	41	0·15
Mus'brook	c	76	51	0·29
Dubbo ..	u	67	48	0
Mudgee ..	u	69	47	0·04
Maitland..	c	68	59	0·04
Newcastle	b	75	44	0·04
Orange ..	r	61	39	0·18
Bathurst..	u	67	42	0·05
MtVictoria	..	..	..	..
Forbes ..	o	62	46	0·04
SYDNEY ..	b	66	54	0·24
Wentw'th.	o	53	45	0·16
Young ..	p	63	25	0·10
Woll'gong	c	73	64	0
Moss Vale	c	62	44	0·01
Euston ..	c	54	42	0·23
Goulburn	u	67	45	0·09
Wagga ..	r	64	50	0·09
Cape Geo.	c	64	50	0
Queanb'an	u	65	45	0·02
Deniliquin	c	58	48	0·38
Albury ..	d	68	45	0·25
Bodalla ..	..	..	..	..
Cooma ..	c	54	33	0·13
Eden	b	60	54	0·11



WEATHER MAP,

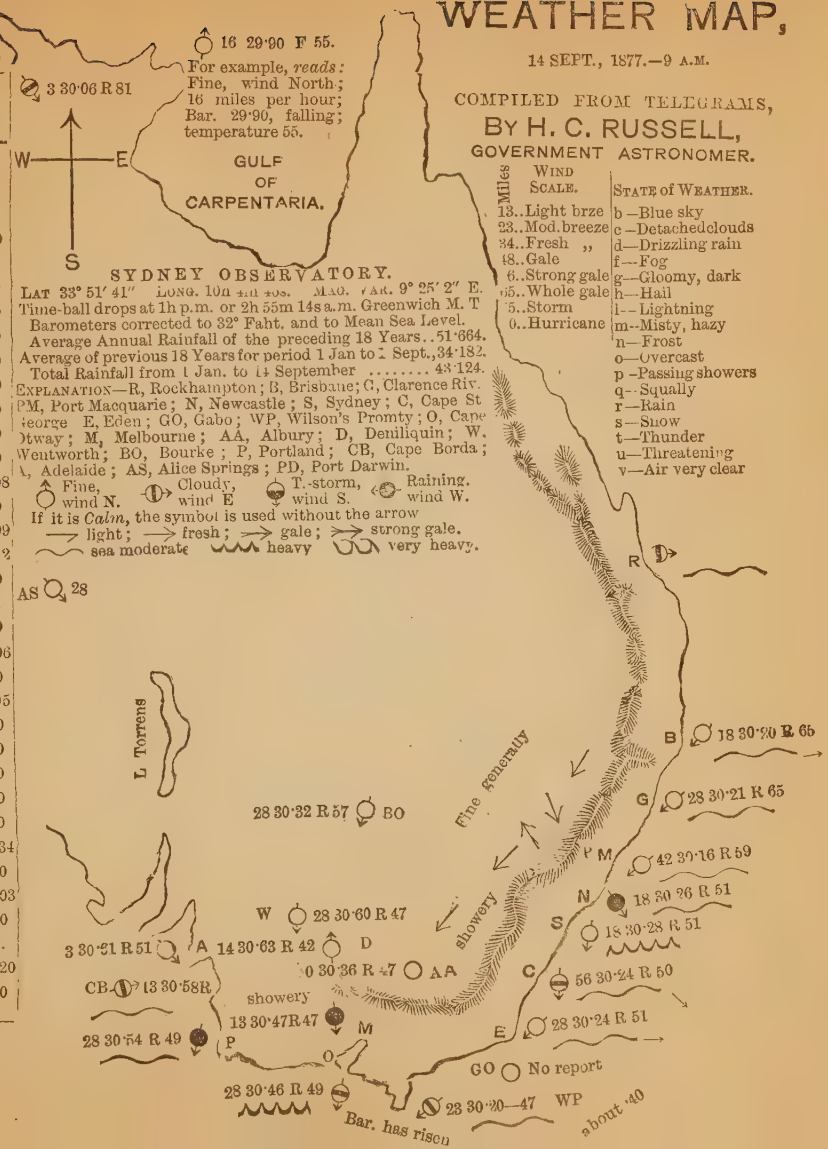
14 SEPT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	b	59	36	0
Grafton ..	b	81	46	0
Inverell ..	c	63	40	0
Bourke ..	b	60	50	0
Narrabri..	b	63	44	0
Armidale.	b	56	45	0
Gunnedah	b	62	34	0
Tamworth	c	61	43	0
P. Macqrie	b	72	49	0
Murr'undi	b	58	50	0
Cassilis ..	b	57	42	0
Mus'brook	b	68	43	0
Dubbo ..	c	66	41	0
Mudgee ..	c	56	42	0·08
Maitland..	u	64	59	0
Newcastle	r	71	43	0·09
Orange ..	c	50	31	0·32
Bathurst..	b	61	39	0
MtVictoria	..	..	..	..
Forbes ..	b	64	41	0
SYDNEY ..	d	65	51	0·06
Wentw'th.	b	61	39	0
Young ..	c	52	34	0·05
Woll'gong	b	65	51	0
Moss Vale	c	57	38	0
Euston ..	b	63	37	0
Goulburn	u	56	33	0
Wagga ..	b	64	40	0
Cape Geo.	c	65	44	0·34
Queanb'an	c	61	39	0
Deniliquin	b	60	35	0·03
Albury ..	b	63	31	0
Bodalla ..	..	..	..	..
Cooma ..	p	64	28	0·20
Eden	b	62	42	0



WEATHER MAP,

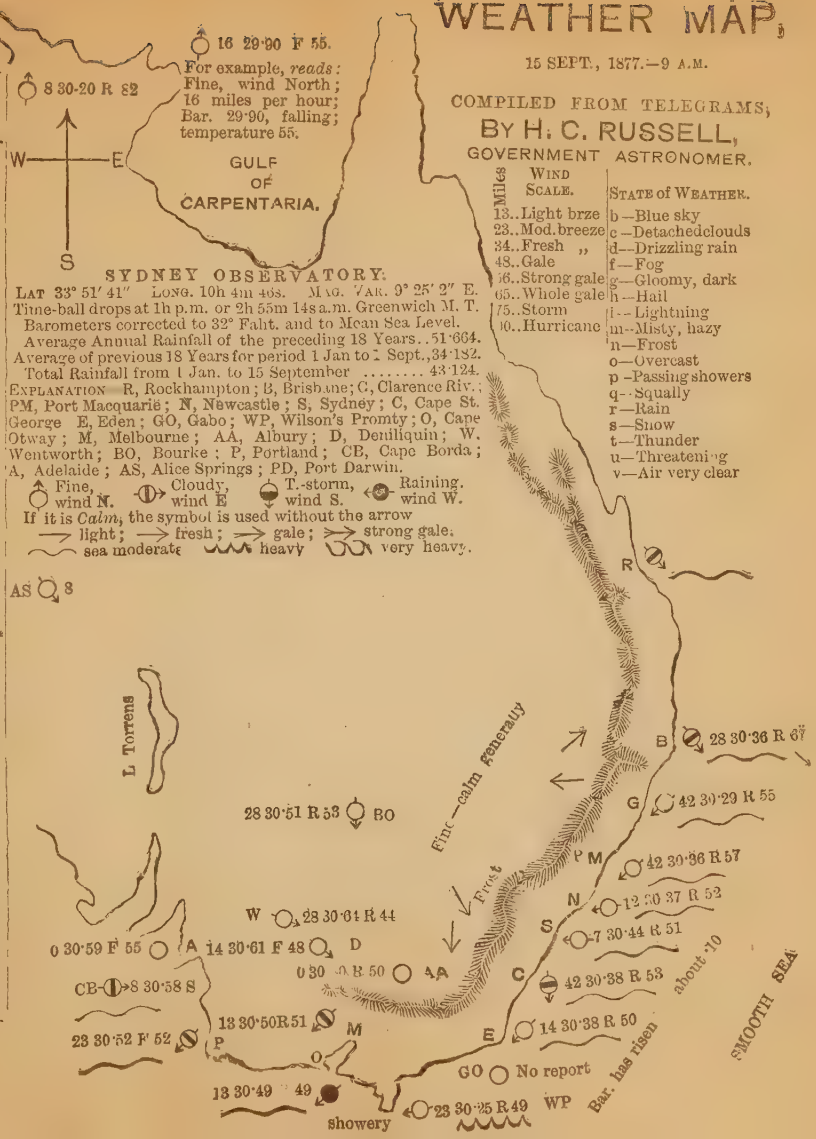
15 SEPT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	b	64	42	0
Grafton ..	b	81	46	0
Inverell ..	b	64	38	0
Bourke ..	b	66	40	0
Narrabri..	b	71	46	0
Armidale.	b	60	43	0
Gunnedah	b	73	46	0
Tamworth	c	68	43	0
P. Macqrie	b	66	46	0
Murr'undi	b	62	50	0
Cassilis ..	b	63	37	0
Mus'brook	b	76	36	0
Dubbo ..	b	63	40	0
Mudgee ..	b	70	41	0
Maitland..	b	62	55	0
Newcastle	c	62	41	0
Orange ..	b	51	24	0
Bathurst..	b	61	28	0
MtVictoria	b	51	32	0
Forbes ..	b	60	34	0
SYDNEY ..	b	56	44	0
Wentw'th.	b	60	38	0
Young ..	b	54	36	0
Woll'gong	b	64	51	0
Moss Vale	b	51	30	0
Euston ..	b	58	36	0
Goulburn	b	58	35	0
Wagga ..	b	61	39	0
Cape Geo.	c	55	47	0
Queanb'an	b	56	33	0
Deniliquin	b	57	36	0
Albury ..	b	63	32	0
Bodalla ..	..	..	..	..
Cooma ..	c	47	32	0
Eden	c	57	47	0



WEATHER MAP,

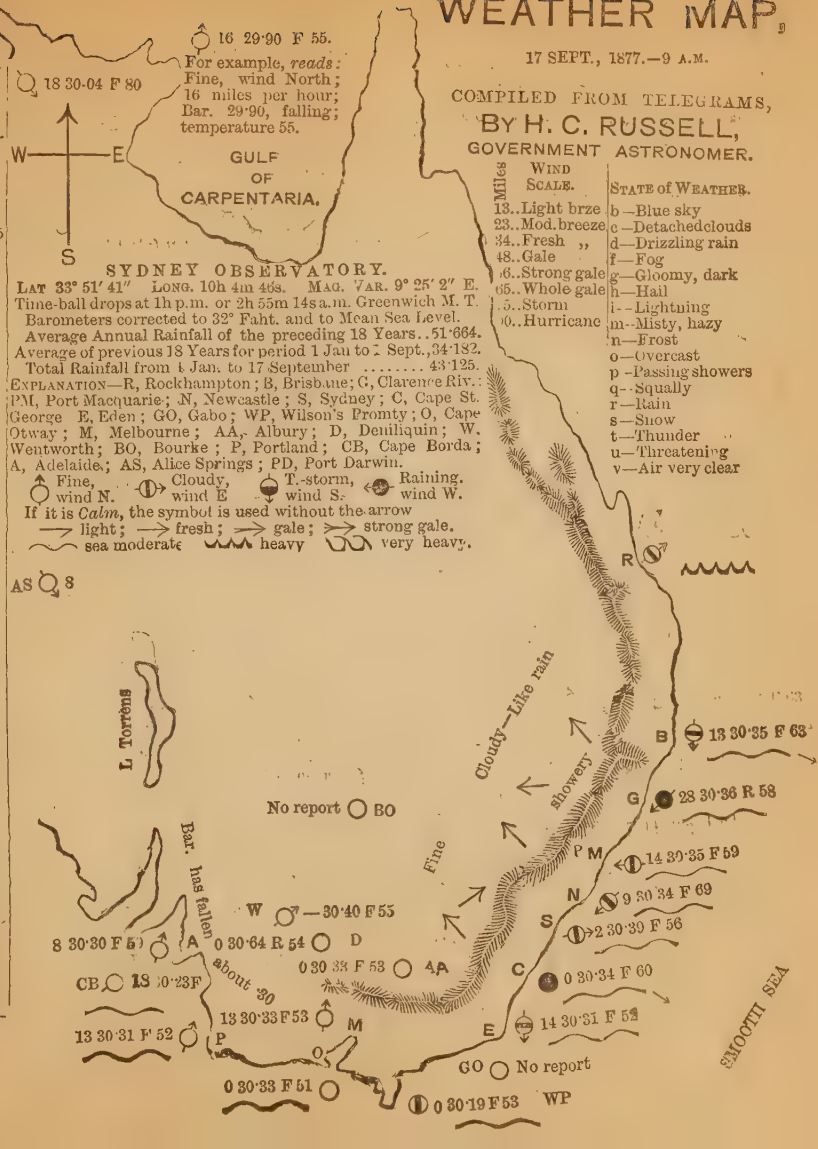
17 SEPT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain
Tenterfi'ld	b	66	40	0
Grafton ..	u	83	56	0
Inverell ..	o	..	38	0
Bourke ..	u	76	54	0·05
Narrabri..	g	75	43	0
Armidale.	c	57	43	0
Gunnedah	c	78	51	0
Tamworth	g	75	51	0
P. Macqrie	g	68	51	0
Murr'undi	g	60	45	0
Cassilis ..	..	..	..	..
Mus'brook	g	73	38	0
Dubbo ..	c	66	41	0
Mudgee ..	..	..	..	..
Maitland..	c	63	56	0
Newcastle	c	70	46	0
Orange ..	b	59	32	0
Bathurst..	b	69	28	0
MtVictoria	c	61	34	0
Forbes ..	..	..	..	..
SYDNEY ..	c	64	51	0
Wentw'th.	b	68	40	0
Young ..	b	64	22	0
Woll'gong	b	64	57	0
Moss Vale	b	61	42	0
Euston ..	b	69	36	0
Goulburn	c	68	30	0
Wagga ..	..	..	..	..
Cape Geo.	c	60	53	0
Queanb'an	c	66	38	0
Deniliquin	b	66	37	0
Albury ..	b	70	33	0
Bodalla ..	b	68	42	0
Cooma ..	c	63	34	0
Eden	c	62	48	0



WEATHER MAP,

18 SEPT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	p	59	45	0·08
Grafton ..	p	73	57	0·26
Inverell ..	r	70	48	0·70
Bourke ..	b	64	57	0·75
Narrabri ..	r	64	59	0·39
Armidale ..	r	58	49	0·15
Gunnedah	..	..	..	..
Tamworth	r	74	53	0·32
P. Macqrie	g	69	55	0·06
Murr'undi	p	65	54	0·24
Cassilis ..	r	64	50	0·50
Mus'brook	r	74	52	0
Dubbo ..	g	64	40	0·28
Mudgee ..	p	75	51	0·19
Maitland ..	g	68	42	0
Newcastle	g	70	45	0
Orange ..	g	62	37	0·30
Bathurst ..	p	71	42	0·13
Mt Victoria	u	62	43	0
Forbes ..	..	..	..	..
SYDNEY ..	c	64	52	0
Wentw'th.	b	73	43	0
Young ..	c	69	37	0
Woll'gong	b	65	43	0
Moss Vale	c	64	45	0
Euston ..	c	82	40	0
Goulburn	o	69	35	0
Wagga ..	c	71	45	0
Cape Geo.	c	63	53	0
Queanb'an	u	70	40	0
Deniliquin	c	70	48	0
Albury ..	u	74	44	0
Bodalla ..	c	72	43	0
Cooma ..	o	69	35	0
Eden	c	63	48	0

PD

8 30·01 F 78

W — E

S

16 29·90 F 55.

For example, *reads:* Fine, wind North; 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 18 Years..51·664.

Average of previous 18 Years for period 1 Jan to 1 Sept.,34·182.

Total Rainfall from 1 Jan. to 18 September ..... 43·125.

EXPLANATION —R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. — Cloudy, wind E — T.-storm, wind S. — Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
6..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER.

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS 8

L Torrens

0 30·09 — 59 BO

Cloudy generally—calm

showery

B 13 30·23 F 61

G 14 30·26 F 59

P M 14 30·19 F 58

N 15 30 14 F 62

S 7 30·18 F 58

C 28 30·13 F 63

E 14 30·09 F 53

W 14 30·18 F 60

8 30·03 F 65

A 14 30·24 F 58 D

0 30·16 F 53 AA

CB 13 30·13 F

13 30·10 F 61 M

28 30·00 F 56 P

O

13 30·05 F 60

GO No report

8 29·98 F 56 WP

Bar. has fallen about ·30

WEATHER MAP,

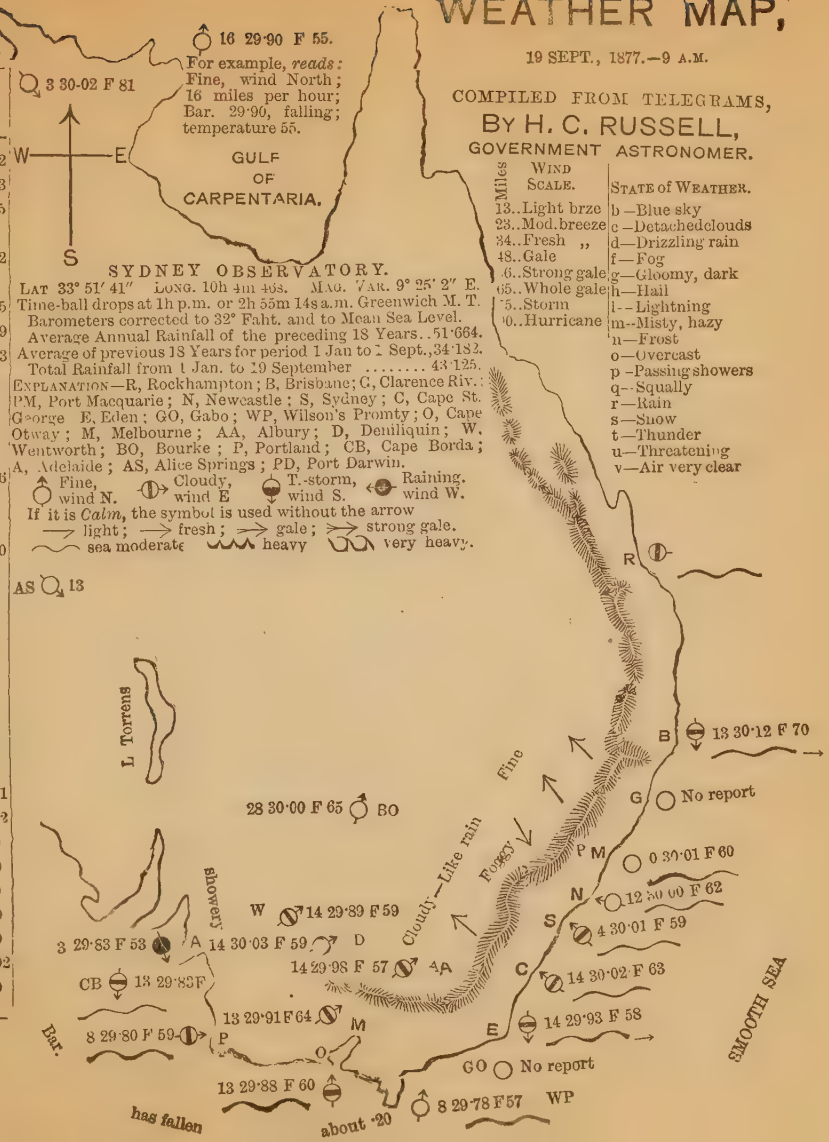
19 SEPT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Tenterfi'ld	b	56	40	0·02
Grafton ..	b	53	40	0·03
Inverell ..	g	63	41	0·15
Bourke ..	b	75	51	0
Narrabri..	b	72	47	0·02
Armidale.	b	60	43	0
Gunnedah	b	76	48	0·45
Tamworth	c	74	49	0·19
P. Macqrie	b	66	59	0·03
Murr'undi	c	64	58	0
Cassilis ..	b	80	50	0
Mus'brook	b	75	50	0
Dubbo ..	f	63	45	0
Mudgee ..	c	70	53	0·06
Maitland..	b	79	63	0
Newcastle	b	74	46	0
Orange ..	c	58	39	0·10
Bathurst..	c	62	45	0
Mt Victoria	..	..	..	..
Forbes ..	..	..	..	..
SYDNEY ..	b	67	53	0
Wentw'th.	g	78	51	0
Young ..	u	66	42	0
Woll'gong	b	69	54	0
Moss Vale	c	65	48	0
Euston ..	u	79	50	0
Goulburn	u	69	47	0·11
Wagga ..	c	54	47	0·22
Cape Geo..	c	67	56	0
Queanb'an	u	64	50	0
Deniliquin	b	68	49	0
Albury ..	c	63	44	0
Bodalla ..	c	75	46	0
Cooma ..	c	61	43	0·02
Eden	c	65	54	0



WEATHER MAP,

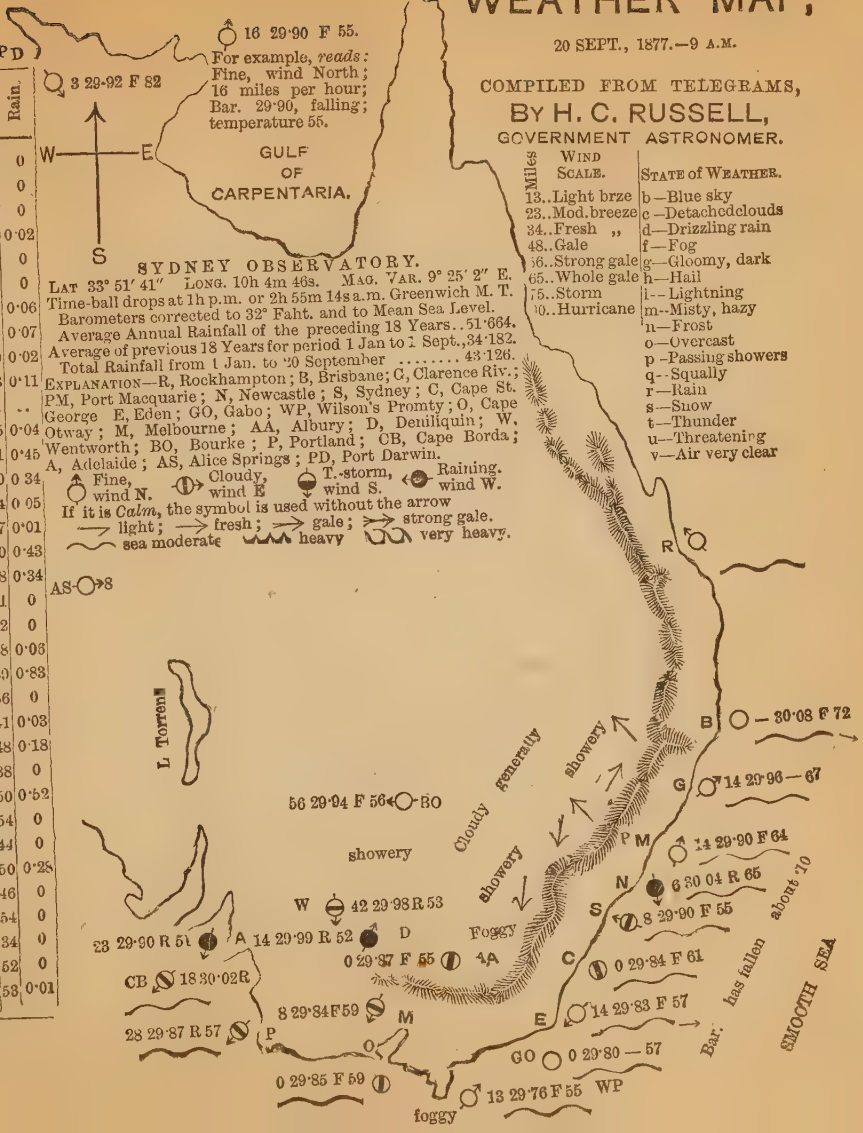
20 SEPT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	c	66	38	0
Grafton ..	b	83	49	0
Inverell ..	u	71	43	0
Bourke ..	b	81	51	0·02
Narrabri ..	c	81	50	0
Armidale.	c	57	42	0
Gunnedah	t	77	51	0·06
Tamworth	t	72	45	0·07
P. Macqrie	b	71	50	0·02
Murr'undi	r	66	53	0·11
Cassilis ..	..	..	..	..
Mus'brook	r	77	45	0·04
Dubbo ..	p	70	51	0·45
Mudgee ..	p	78	50	0 34
Maitland..	d	69	44	0 05
Newcastle	r	75	47	0·01
Orange ..	r	63	50	0·43
Bathurst..	r	70	38	0·34
MtVictoria	r	62	41	0
SYDNEY ..	g	71	52	0
Wentw'th.	o	63	38	0·03
Young ..	r	68	39	0·83
Woll'gong	c	67	56	0
Moss Vale	r	65	41	0·03
Euston ..	p	77	48	0·18
Goulburn	r	61	38	0
Wagga ..	r	62	50	0·52
Cape Geo.	c	68	54	0
Queanb'an	u	68	44	0
Deniliquin	p	75	50	0·28
Albury ..	u	75	46	0
Bodalla ..	p	78	54	0
Cooma ..	f	68	34	0
Eden	b	69	52	0
Gabo Isld.	b	64	53	0·01



WEATHER MAP,

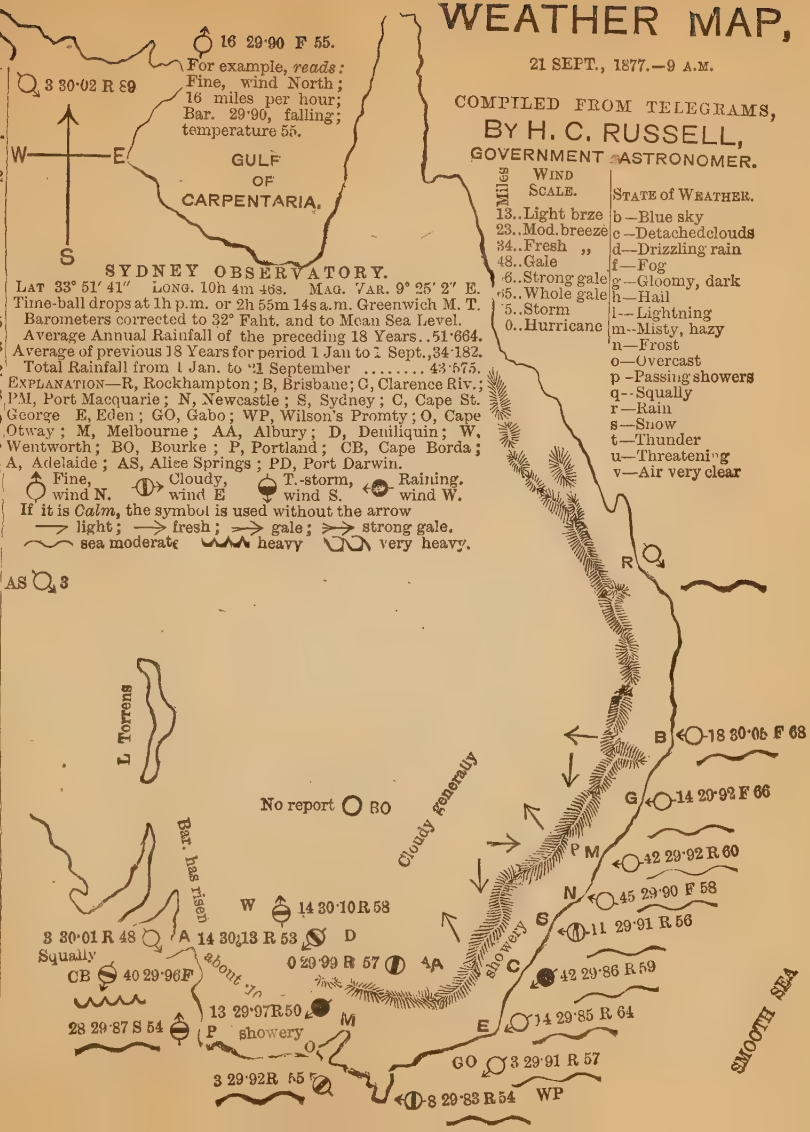
21 SEPT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterfield	b	66	40	0
Grafton ..	b	83	46	0·22
Inverell ..	b	71	38	0
Bourke ..	..	..	..	..
Narrabri..	b	80	44	0
Armidale.	c	60	43	0
Gunnedah	b	73	31	0
Tamworth	c	63	42	0·05
P. Macqrie	b	79	47	0·03
Murr'undi	c	61	50	0·22
Cassilis ..	c	62	48	0·18
Mus'brook	b	71	47	0·19
Dubbo ..	c	64	41	0·18
Mudgee ..	c	65	46	0·22
Maitland..	c	61	59	0·29
Newcastle	b	74	46	0·41
Orange ..	o	60	33	0·54
Bathurst..	o	54	41	0·42
Mt Victoria	g	51	34	0·40
Forbes ..	b	64	41	0
SYDNEY ..	c	58	50	0·45
Wentw'th.	c	66	49	0
Young ..	g	60	42	0·04
Woll'gong	c	61	57	0·50
Moss Vale	c	59	44	0·61
Euston ..	g	76	38	0
Goulburn	c	72	46	0·20
Wagga ..	u	64	45	0·20
Cape Geo.	p	62	58	1·21
Queanb'an	b	62	42	0·11
Deniliquin	g	75	48	0
Albury ..	g	69	50	0
Bodalla ..	b	76	43	0
Cooma ..	b	62	37	0
Eden	b	69	54	0
Gabo Isld.	b	64	55	0



Miles	Wind Scale.
13..	Light brze
23..	Mod. breeze
34..	Fresh „
48..	Gale
6..	Strong gale
65..	Whole gale
5..	Storm
0..	Hurricane

STATE of WEATHER.

b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

WEATHER MAP,

22 SEPT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	b	61	35	0
Grafton ..	b	84	45	0
Inverell ..	b	70	41	0
Bourke ..	b	76	49	0
Narrabri ..	b	71	48	0
Armidale .	b	57	40	0
Gunnedah	b	77	41	0
Tamworth	b	69	44	0
P. Macqrie	b	73	52	0
Murr'undi	b	61	50	0
Cassilis ..	b	65	5	0
Mus'brook	b	74	43	0
Dubbo ..	b	64	43	0
Mudgee ..	o	70	45	0
Maitland ..	b	68	53	0
Newcastle	c	74	48	0
Orange ..	c	58	36	0·05
Bathurst ..	c	62	38	0
MtVictoria	b	58	39	0
Forbes ..	o	67	45	0·10
SYDNEY ..	b	67	55	0·21
Wentw'th.	p	68	40	0·14
Young ..	o	63	29	0·07
Woll'gong	b	68	59	0
Moss Vale	b	60	42	0
Euston ..	p	71	39	0·14
Goulburn	b	65	40	0
Wagga ..	p	65	44	0·10
Cape Geo.	b	64	51	0·17
Queanb'an	c	67	42	0
Deniliquin	o	56	49	0·07
Albury ..	c	65	45	0·12
Bodalla ..	f	74	40	0
Cooma ..	b	74	34	0·04
Eden	o	71	53	0·22
Gabo Isld.	b	64	55	0·40

PD

16 29·90 F 55.
For example, *reads:* Fine, wind North; 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E
S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.
LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664.
Average of previous 18 Years for period 1 Jan to 1 Sept.,34·182.
Total Rainfall from 1 Jan. to 22 September ..... 43·782.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. — Cloudy, wind E — T.-storm, wind S. — Raining. wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.
sea moderate heavy very heavy.

Miles	Wind Scale.
13..	Light brze
23..	Mod. breeze
34..	Fresh „
48..	Gale
6..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER.
b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

AS

L Torrens

42 30·15 — 55 BO

showery

W 42 30·07 F 49

40 30·15 R 47 A 14 30 10 F 47 D

0 30·04 R 48 A

CB

13 29·98 R 50 P

8 30·00 R 47 M

0 29·97 R 50

rain

8 29·90 R 55 WP

GO 1 29·96 R 58

E 14 29·96 R 56

C 14 29·98 R 54

S 7 30·04 R 61

N 15 30 00 R 65

PM 14 30·04 R 63

G 14 30·09 R 69

B

R 0

Fine—calm generally

Foggy

Bar. has risen about ·10

SMOOTH SEA

WEATHER MAP,

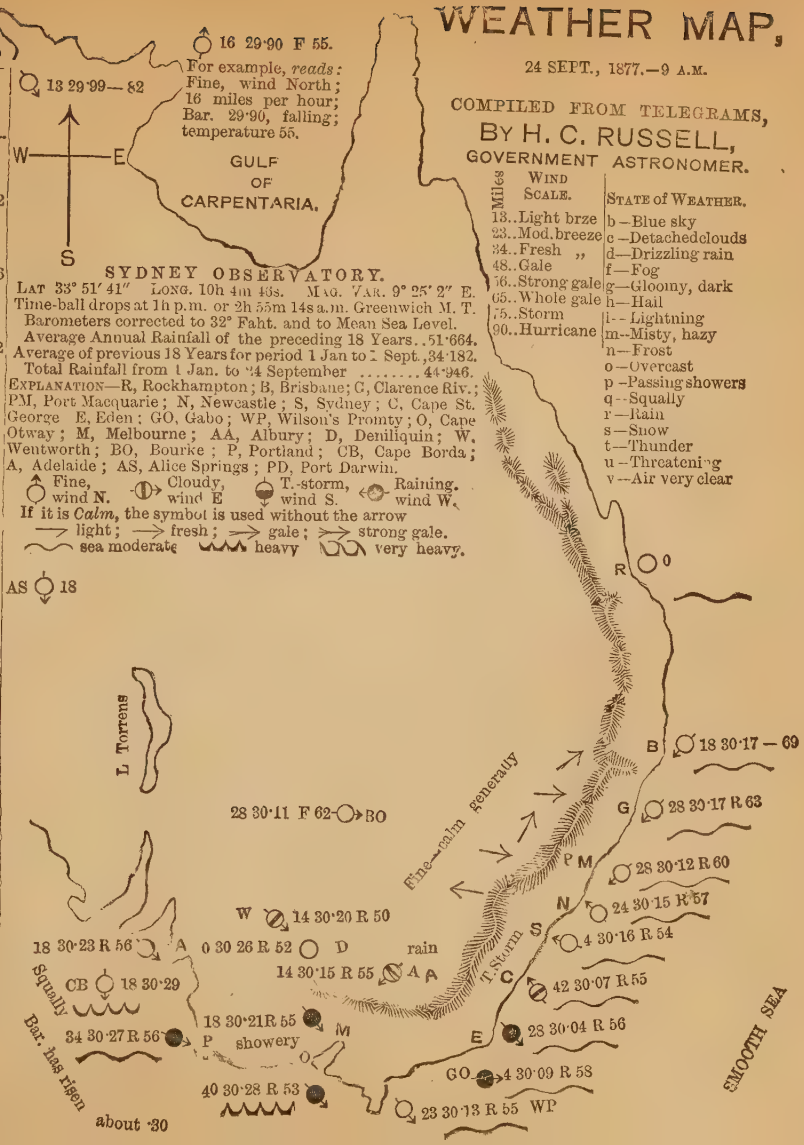
24 SEPT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	b	68	29	0
Grafton ..	b	88	41	0
Inverell ..	b	73	33	0·02
Bourke ..	b	70	50	0
Narrabri..	b	80	40	0
Armidale.	b	61	35	0·06
Gunnedah	b	73	36	0
Tamworth	b	68	33	0
P. Macqrie	b	69	56	0·52
Murr'undi	b	63	42	0
Cassilis ..	b	69	35	0
Mus'brook	b	79	37	0
Dubbo ..	b	63	44	0
Mudgee ..	b	63	37	0
Maitland..	b	73	45	0·07
Newcastle	b	72	46	0·50
Orange ..	c	57	26	0
Bathurst..	b	64	20	0
MtVictoria	.	..	..	..
Forbes ..	c	67	50	0
SYDNEY ..	b	63	46	1·16
Wentw'th.	g	53	42	0·23
Young ..	b	62	35	0
Woll'gong	b	68	58	1·50
Moss Vale	t	57	40	1·92
Euston ..	c	54	44	0·17
Goulburn	b	65	37	0·15
Wagga ..	b	66	45	0
Cape Geo.	c	63	50	0·95
Queanb'an	c	60	39	0·08
Deniliquin	b	66	40	0·32
Albury ..	g	68	39	0
Bodalla ..	r	59	45	2·10
Cooma ..	r	53	37	1·04
Eden	r	65	52	1·75
Gabo Isld.	r	59	54	1·45



WEATHER MAP,

25 SEPT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

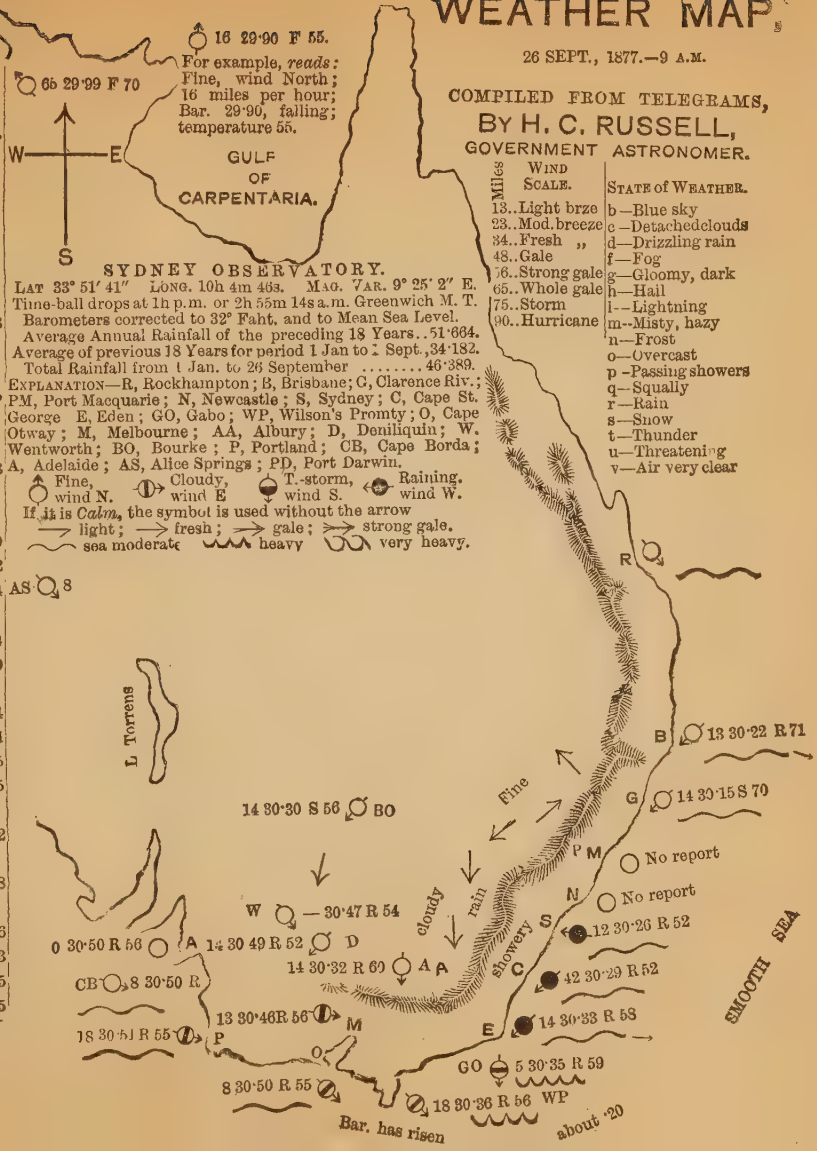
Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	c	70	42	0
Grafton ..	b	85	52	0
Inverell ..	b	68	40	0
Bourke ..	c	76	51	0
Narrabri ..	b	81	44	0
Armidale .	b	62	40	0
Gunnedah	..	..	..	..
Tamworth	b	72	42	0
P. Macqrie	b	68	52	0
Murr'undi	b	66	45	0
Cassilis ..	b	68	34	0
Mus'brook	b	74	39	0
Dubbo ..	b	62	43	0
Mudgee ..	u	74	36	0
Maitland..	b	67	47	0
Newcastle	c	79	50	0
Orange ..	b	60	34	0·08
Bathurst..	b	67	41	0
MtVictoria	b	62	32	0
Forbes ..	b	68	47	0
SYDNEY ..	c	66	50	0
Wentw'th.	b	62	43	0·09
Young ..	b	64	21	0
Woll'gong	b	64	58	0
Moss Vale	b	62	39	0
Euston ..	g	62	48	0
Goulburn	c	64	34	0
Wagga ..	b	71	45	0
Cape Geo.	b	64	51	0
Queanb'an	b	61	38	0
Deniliquin	g	67	44	0
Albury ..	g	60	40	0
Bodalla ..	b	68	37	0·55
Cooma ..	b	51	30	0·67
Eden	b	60	49	0·73
Gabo Isld.	b	60	54	0·64

WEATHER MAP.

26 SEPT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	..	..	..	..
Grafton ..	b	85	48	0
Inverell ..	..	..	..	..
Bourke ..	b	70	45	0
Narrabri ..	b	71	40	0
Armidale .	b	63	41	0
Gunnedah	..	..	..	..
Tamworth	b	72	40	0·03
P. Macqrie	..	..	..	..
Murr'undi	u	69	45	0
Cassilis ..	b	68	40	0·05
Mus'brook	..	..	..	..
Dubbo ..	b	66	44	0
Mudgee ..	b	80	45	0·03
Maitland ..	..	..	..	..
Newcastle	..	..	..	..
Orange ..	c	62	32	0·20
Bathurst ..	b	67	39	0·02
MtVictoria	p	57	37	0·64
Forbes ..	b	69	45	0
SYDNEY ..	r	68	51	1·44
Wentw'th.	b	63	44	0·10
Young ..	b	65	21	0
Woll'gong	p	64	55	0·84
Moss Vale	u	58	40	0·84
Euston ..	b	75	45	0·05
Goulburn	g	65	36	2·55
Wagga ..	b	70	41	0
Cape Geo.	p	65	51	0·52
Queanb'an	g	69	45	0
Deniliquin	b	59	40	0·08
Albury ..	b	70	38	0
Bodalla ..	p	75	44	0·66
Cooma ..	p	55	40	0·03
Eden	p	66	53	0·15
Gabo Isld.	c	65	54	0·35



WEATHER MAP,

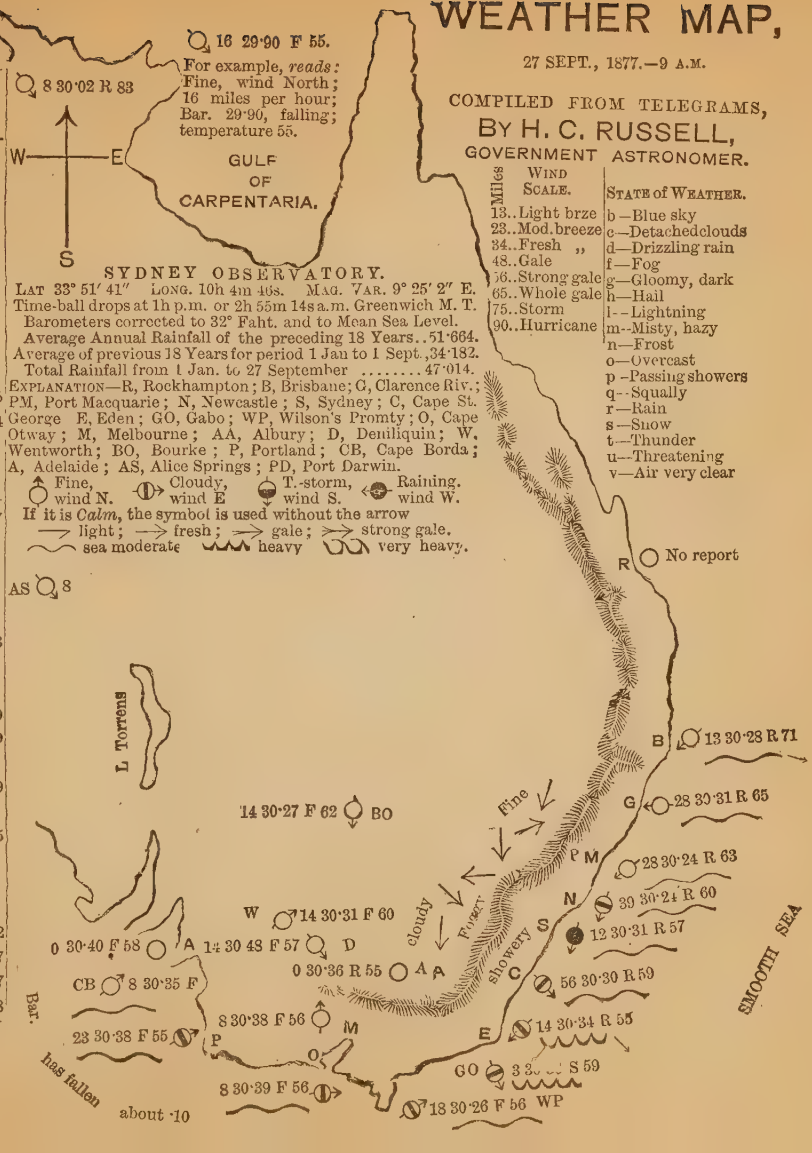
27 SEPT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	b	66	32	0
Grafton ..	b	86	45	0
Inverell ..	b	71	37	0
Bourke ..	b	74	48	0
Narrabri..	b	75	49	0
Armidale.	b	59	37	0
Gunnedah	b	72	43	0
Tamworth	b	68	38	0
P. Macqrie	b	70	53	0
Murr'undi	g	61	51	0
Cassilis ..	b	65	42	0·05
Mus'brook	g	78	45	0·04
Dubbo ..	b	63	47	0
Mudgee ..	b	74	44	0
Maitland..	b	65	55	0·11
Newcastle	c	70	51	0·27
Orange ..	c	59	34	0
Bathurst..	c	65	43	0
MtVictoria	f	54	40	0
Forbes ..	g	68	44	0
SYDNEY ..	r	60	53	0·63
Wentw'th.	b	70	45	0
Young ..	c	65	29	0
Woll'gong	p	62	57	0·80
Moss Vale	o	68	45	0·79
Euston ..	b	80	44	0
Goulburn	g	61	46	0·09
Wagga ..	b	74	49	0
Cape Geo.	c	62	54	0·35
Queanb'an	c	65	46	0
Deniliquin	b	70	47	0
Albury ..	b	73	40	0
Bodalla ..	p	68	48	1·12
Cooma ..	c	55	40	0·07
Edeo	c	63	52	1·17
Gabo Isld.	c	60	55	0·48



WEATHER MAP,

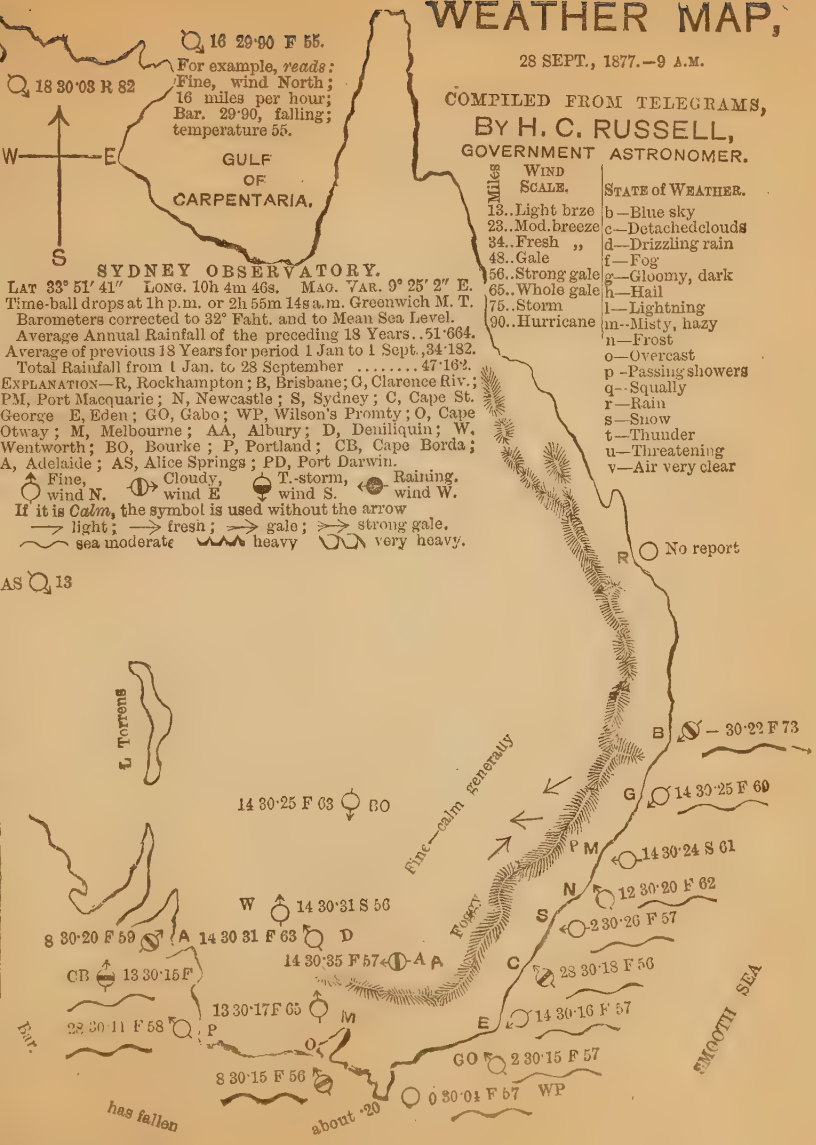
28 SEPT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	g	70	38	0
Grafton ..	b	86	59	0
Inverell ..	b	72	42	0
Bourke ..	b	82	51	0
Narrabri ..	b	84	51	0
Armidale .	b	60	37	0
Gunnedah	..	..	..	..
Tamworth	b	75	47	0
P. Macqrie	b	72	52	0·20
Murr'undi	b	68	50	0
Cassilis ..	b	67	43	0
Mus'brook	b	75	40	0
Dubbo ..	b	69	47	0·10
Mudgee ..	b	77	41	0
Maitland..	b	66	47	0·09
Newcastle	b	71	51	0
Orange ..	b	62	29	0
Bathurst..	c	69	31	0·32
MtVictoria	b	58	37	0·10
Forbes ..	b	70	49	0
SYDNEY ..	b	59	49	0·15
Wentw'th.	b	77	45	0
Young ..	b	66	31	0
Woll'gong	b	60	55	1·19
Moss Vale	b	53	39	0·02
Euston ..	b	79	43	0.
Goulburn	b	62	37	0·13
Wagga ..	b	56	45	0
Cape Geo.	c	61	51	0.
Queanb'an	b	67	40	0
Deniliquin	b	74	49	0
Albury ..	c	76	40	0
Bodalla ..	b	69	39	0
Cooma ..	f	65	34	0
Eden	b	64	48	0
Gabo Isld.	b	60	57	0



WEATHER MAP,

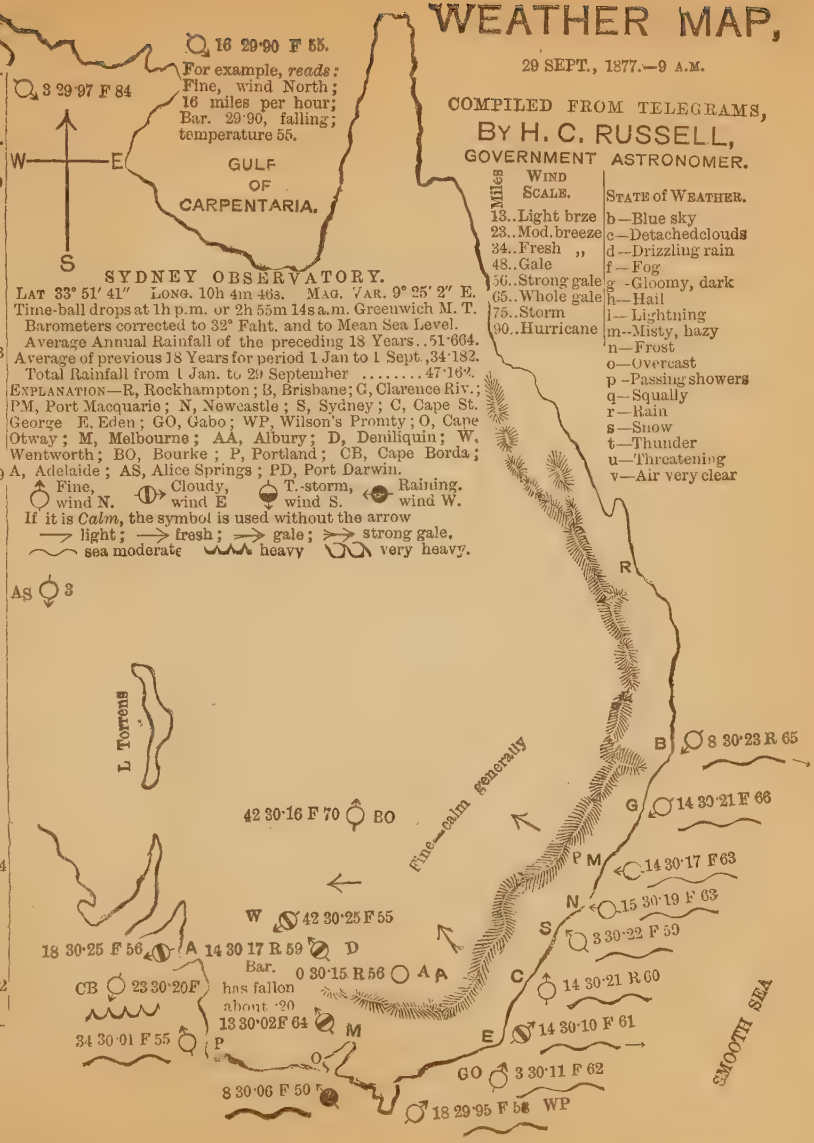
29 SEPT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterfi'ld	b	66	35	0
Grafton ..	b	79	48	0·09
Inverell ..	b	71	40	0
Bourke ..	b	79	56	0
Narrabri ..	m	82	39	0
Armidale .	b	64	33	0
Gunnedah	c	82	46	0
Tamworth	c	76	42	0
P. Macqrie	b	67	49	0·03
Murr'undi	b	67	48	0
Cassilis ..	b	63	40	0
Mus'brook	b	77	44	0
Dubbo ..	c	69	49	0
Mudgee ..	o	80	44	0·09
Maitland ..	b	69	50	0
Newcastle	b	75	50	0
Orange ..	b	60	29	0
Bathurst ..	b	68	44	0
MtVictoria	b	58	38	0
Forbes ..	b	71	48	0
SYDNEY ..	b	67	51	0
Wentw'th.	c	81	47	0
Young ..	b	68	21	0
Woll'gong	b	64	58	0
Moss Vale	b	63	42	0
Euston ..	b	86	49	0
Goulburn	b	69	36	0
Wagga ..	b	76	47	0
Cape Geo.	b	56	52	0
Queanb'an	b	69	40	0·04
Deniliquin	c	77	54	0
Albury ..	b	76	40	0
Bodalla ..	b	77	41	0
Cooma ..	b	70	33	0
Eden	b	68	51	0·02
Gabo Isld.	b	65	56	0



SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 18 Years..51·664.

Average of previous 18 Years for period 1 Jan to 1 Sept.,34·182.

Total Rainfall from 1 Jan. to 29 September .....47·16?.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate heavy very heavy.

WEATHER MAP,

1 OCT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain
Tenterfi'ld	b	75	39	0
Grafton ..	b	92	41	0
Inverell ..	b	74	40	0
Bourke ..	b	76	51	0
Narrabri ..	g	83	52	0
Armidale.	b	66	41	0
Gunnedah	..	..	..	..
Tamworth	b	81	40	0
P. Macqrie	b	67	49	0
Murr'undi	b	73	46	0
Cassilis ..	b	74	44	0
Mus'brook	b	81	42	0
Dubbo ..	c	69	43	0
Mudgee ..	g	76	42	0
Maitland..	b	75	49	0·13
Newcastle	b	81	52	0
Orange ..	c	60	53	0
Bathurst..	g	72	34	0
MtVictoria	b	62	37	0
Forbes ..	..	..	..	..
SYDNEY ..	b	74	53	0
Wentw'th.	b	64	49	0
Young ..	u	73	0	0
Woll'gong	o	64	59	0
Moss Vale	b	62	43	0
Euston ..	c	75	56	0
Goulburn	u	73	41	0
Wagga ..	b	76	45	0
Cape Geo.	h	67	52	0
Queanb'an	b	71	39	0
Deniliquin	g	71	46	0
Albury ..	..	..	..	..
Bodalla ..	p	74	38	0·0
Cooma ..	c	62	33	0·05
Eden	c	68	50	0·40
Gabo Isld.	c	60	52	0

WIND SCALE.

Miles

13..Light brze
23..Mod.breeze
34..Fresh ,,
48..Gale
56..Strong gale
65..Whole gale
75..Storm
90..Hurricane

STATE of WEATHER.

b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

No report

W — E

S

16 29·90 F 55.

For example, *reads:* Fine, wind North; 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664.
Average of previous 18 Years for period 1 Jan. to 1 Oct., 36·587.
Total Rainfall from 1 Jan. to 1 October ..... 47·162.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale, sea moderate heavy very heavy.

AS 8

L Torrens

14 BO

Fine—calm generally

W 42 30·28 F 54

18 30·39 R 55 A 28 30 24 R 53 D

No report A A

CB 13 30·27 R

18 30·06 R 54 M

34 30·12 R 54 P showery O

28 30·06 S 51

Bar. has risen about ·10

R No report

B 8 30·03 F 72

G 14 29·89 F 74

P M

N 12 29·96 F 60

S 8 29·95 F 60

C 42 29·95 F 59

E 42 29·85 F 50

GO 7 29·88 F 53

23 29·80 F 53 WP

Bar. has fallen about ·30

SMOOTH SEA

WEATHER MAP,

2 OCT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	b	71	40	0
Grafton ..	b	92	45	0
Inverell ..	..	..	..	..
Bourke ..	o	76	47	0
Narrabri..	b	77	43	0
Armidale.	b	65	41	0
Gunnedah	b	81	43	0
Tamworth	b	75	37	0
P. Macqrie	b	69	50	0
Murr'undi	b	70	45	0
Cassilis ..	b	69	38	0
Mus'brook	b	77	41	0
Dubbo ..	b	65	43	0
Mudgee ..	g	73	40	0
Maitland..	b	79	55	0
Newcastle	b	79	55	0
Orange ..	g	59	30	0
Bathurst..	c	66	39	0
MtVictoria	b	59	35	0
Forbes ..	b	65	44	0
SYDNEY ..	g	70	52	0
Wentw'th.	c	66	48	0
Young ..	c	61	0	0
Woll'gong	b	64	56	0
Moss Vale	b	59	40	0
Euston ..	b	85	45	0
Goulburn	b	60	41	0
Wagga ..	b	76	45	0
Cape Geo.	c	67	51	0
Queanb'an	b	64	42	0
Deniliquin	b	68	39	0
Albury ..	b	62	37	0
Bodalla ..	b	72	38	0
Cooma ..	c	69	33	0
Eden	b	68	45	0·33
Gabo Isld.	c	59	46	0

WEATHER MAP,

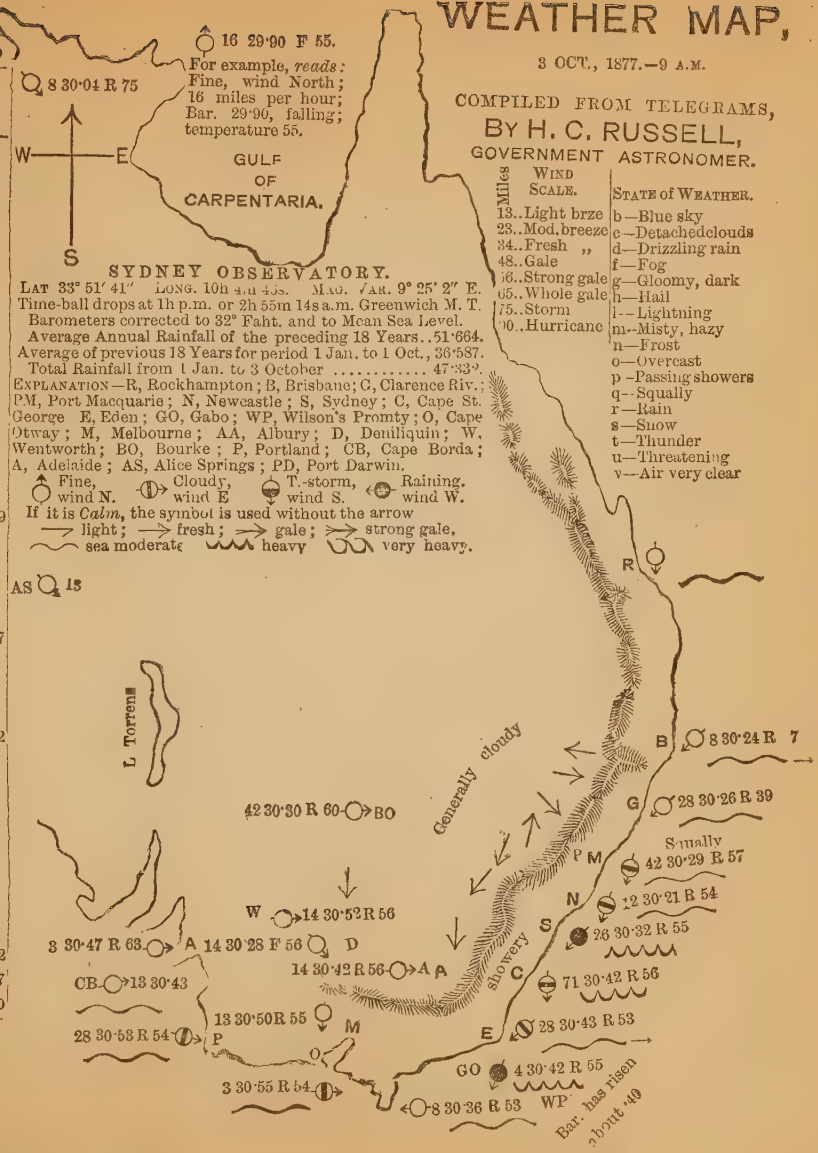
3 OCT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Tenterfi'ld	b	66	35	0
Grafton ..	b	90	49	0
Inverell ..	b	76	38	0
Bourke ..	o	72	42	0
Narrabri..	b	76	44	0
Armidale.	c	60	38	0
Gunnedah	b	84	43	0
Tamworth	g	72	37	0
P. Macqrie	q	66	53	0
Murr'undi	c	65	49	0
Cassilis ..	b	64	36	0
Mus'brook	c	74	45	0
Dubbo ..	b	64	45	0
Mudgee ..	b	73	36	0
Maitland..	c	66	54	0
Newcastle	p	77	50	0·49
Orange ..	c	57	30	0
Bathurst..	c	64	34	0
Mt Victoria	g	55	39	0
Forbes ..	b	37	49	0
SYDNEY ..	p	61	52	0·17
Wentw'th.	b	68	42	0
Young ..	b	62	0	0
Woll'gong	c	65	57	0
Moss Vale	r	57	42	0·02
Euston ..	b	80	44	0
Goulburn	c	62	39	0
Wagga ..	b	74	40	0
Cape Geo.	c	59	51	0
Queanb'an	c	63	44	0
Deniliquin	b	66	39	0
Albury ..	b	69	37	0
Bodalla ..	o	68	50	0
Cooma ..	o	58	37	0·02
Eden	o	60	50	0·07
Gabo Isld.	p	58	53	0·20



WEATHER MAP,

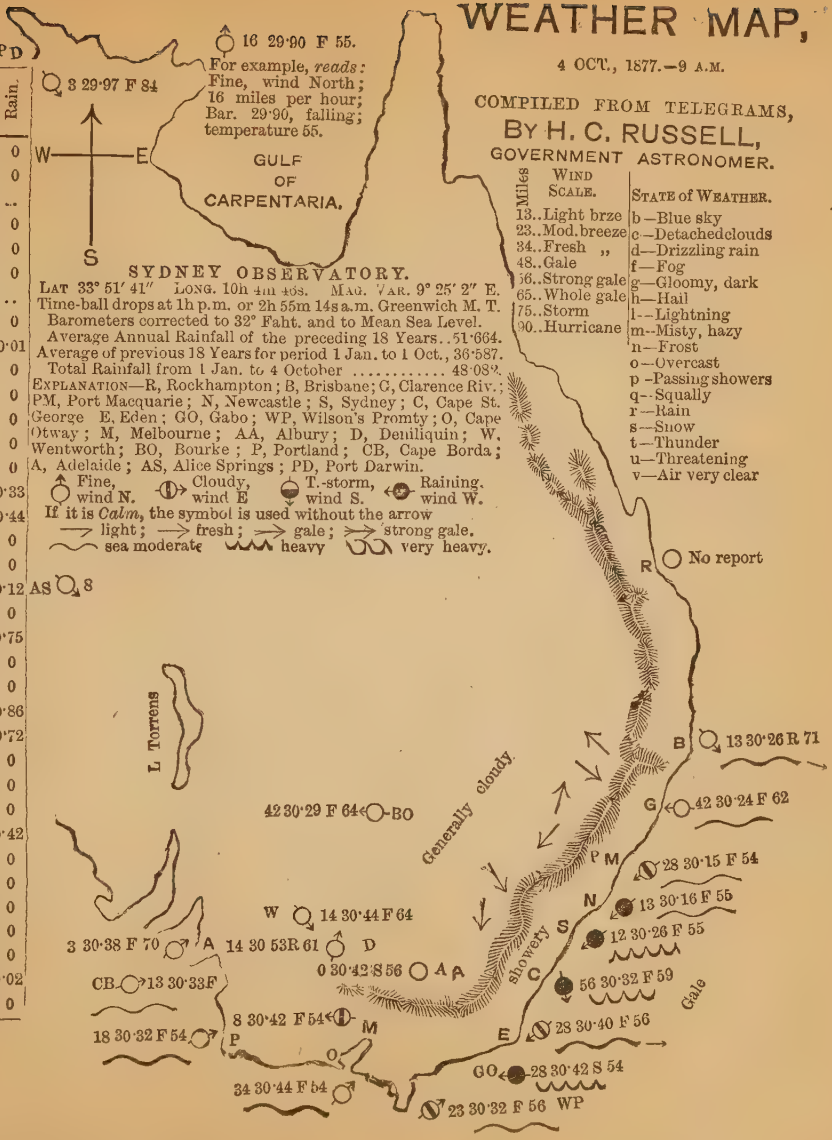
4 OCT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterfi'ld	c	71	40	0
Grafton ..	b	81	51	0
Inverell ..	..	..	..	..
Bourke ..	o	77	50	0
Narrabri..	b	76	50	0
Armidale.	c	60	38	0
Gunnedah	..	..	..	..
Tamworth	u	70	39	0
P. Macqrie	c	66	52	0·01
Murr'undi	u	64	48	0
Cassilis ..	b	67	41	0
Mus'brook	c	69	52	0
Dubbo ..	b	69	44	0
Mudgee ..	u	77	39	0
Maitland..	u	63	53	0·33
Newcastle	p	78	51	0·44
Orange ..	c	61	30	0
Bathurst..	u	65	42	0
MtVictoria	p	53	40	0·12
Forbes ..	b	67	42	0
SYDNEY ..	r	60	54	0·75
Wentw'th.	b	77	39	0
Young ..	b	63	0	0
Woll'gong	p	64	56	0·86
Moss Vale	r	53	42	0·72
Euston ..	b	80	42	0
Goulburn	u	56	43	0
Wagga ..	b	70	40	0
Cape Geo.	p	58	53	0·42
Queanb'an	c	63	42	0
Deniliquin	c	72	43	0
Albury ..	c	76	36	0
Bodalla ..	u	64	49	0
Cooma ..	g	59	39	0
Eden	u	65	31	0·02
Gabo Isld.	p	58	55	0



WEATHER MAP,

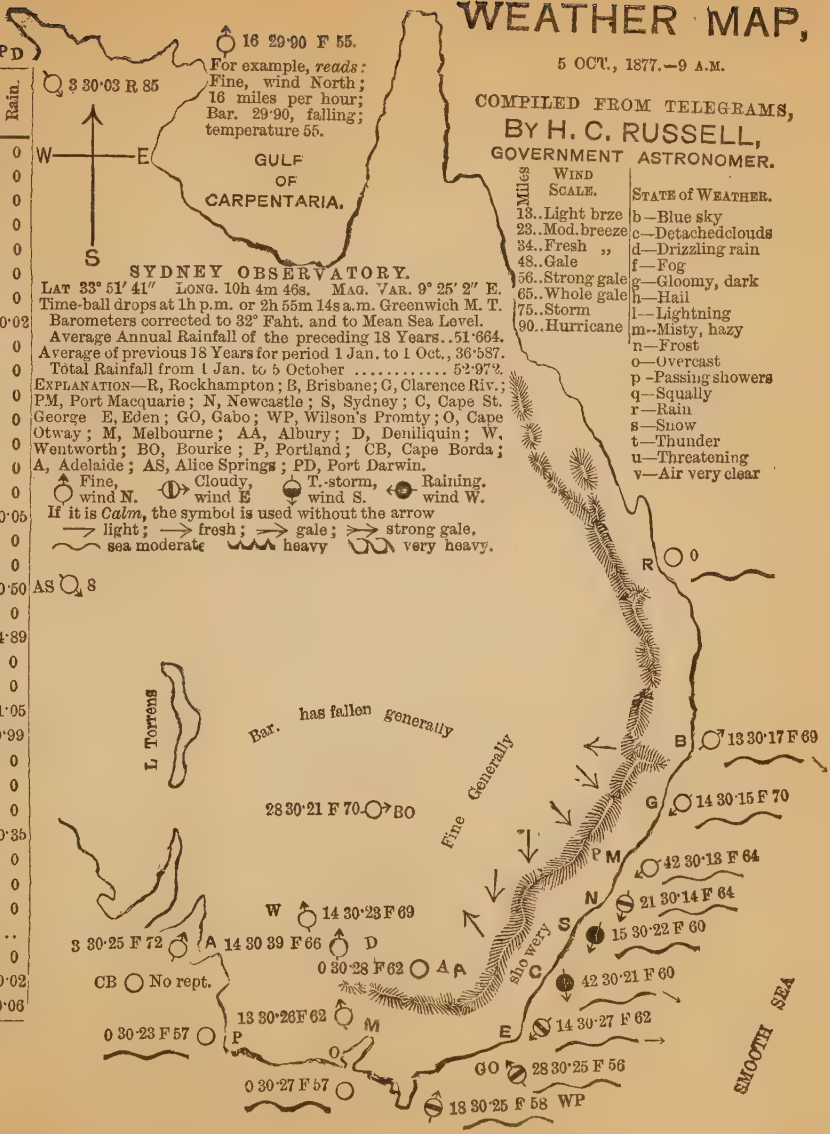
5 OCT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	b	76	45	0
Grafton ..	b	89	48	0
Inverell ..	b	73	50	0
Bourke ..	o	79	53	0
Narrabri..	b	78	43	0
Armidale.	b	57	40	0
Gunnedah	g	80	46	0
Tamworth	c	70	42	0·02
P. Macqrie	b	69	53	0
Murr'undi	c	62	56	0
Cassilis ..	b	63	47	0
Mus'brook	g	70	54	0
Dubbo ..	b	69	43	0
Mudgee ..	b	67	42	0
Maitland..	g	67	55	0
Newcastle	g	77	53	0·05
Orange ...	u	61	37	0
Bathurst..	g	64	42	0
MtVictoria	g	50	43	0·50
Forbes ..	b	69	45	0
SYDNEY ..	p	62	52	4·89
Wentw'th.	b	73	46	0
Young ..	b	65	0	0
Woll'gong	p	59	56	1·05
Moss Vale	c	53	47	0·99
Euston ..	b	84	46	0
Goulburn	g	61	44	0
Wagga ..	b	74	45	0
Cape Geo.	p	60	57	0·35
Queanb'an	b	72	47	0
Deniliquin	b	72	44	0
Albury ..	b	78	38	0
Bodalla ..	..	..	..	..
Cooma ..	b	67	39	0
Eden	u	63	54	0·02
Gabo Isld.	g	58	53	0·06

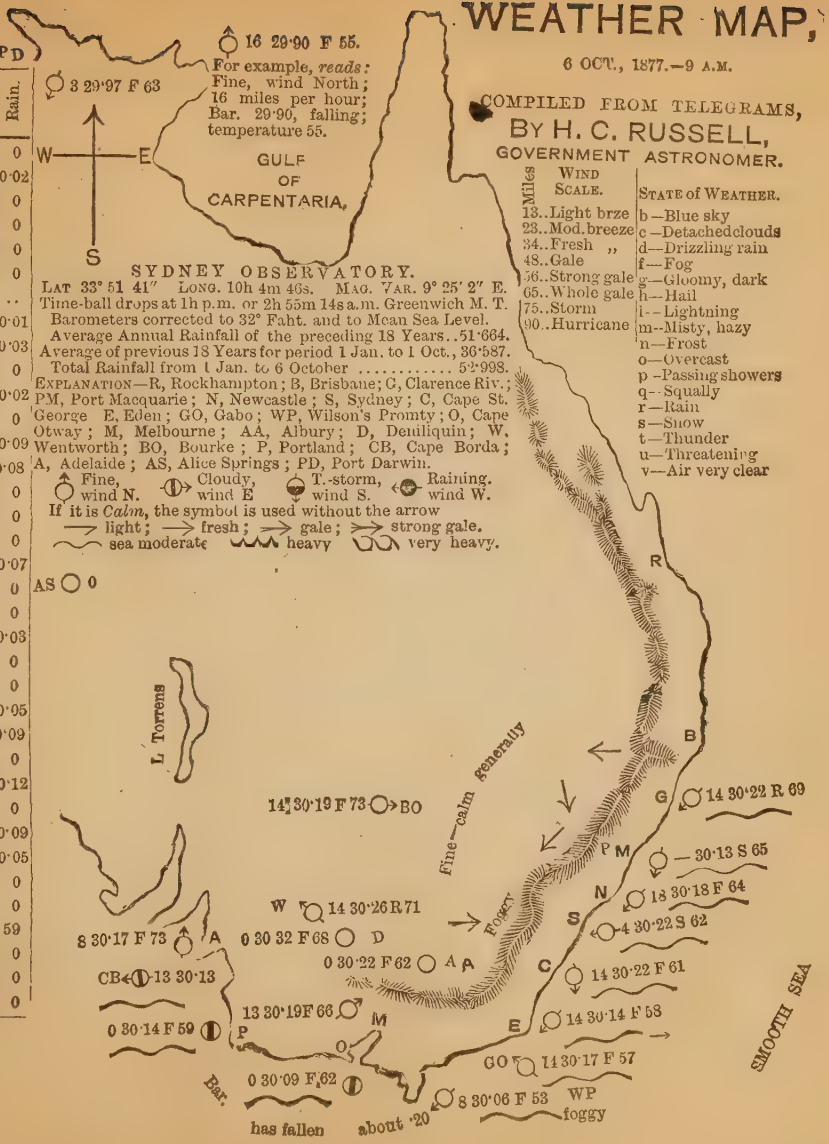


WEATHER MAP,

6 OCT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterfield	b	76	44	0
Grafton ..	b	84	52	0·02
Inverell ..	b	77	46	0
Bourke ..	o	84	55	0
Narrabri ..	b	82	48	0
Armidale .	b	60	42	0
Gunnedah	..	..	..	..
Tamworth	b	73	45	0·01
P. Macqrie	b	71	53	0·03
Murr'undi	b	66	51	0
Cassilis ..	b	64	48	0·02
Mus'brook	b	73	47	0
Dubbo ..	b	74	52	0·09
Mudgee ..	f	81	48	0·08
Maitland ..	b	68	52	0
Newcastle	b	76	50	0
Orange ..	b	65	37	0
Bathurst ..	b	74	38	0·07
Mt Victoria	b	61	41	0
Forbes ..	b	71	46	0
SYDNEY ..	b	65	53	0·03
Wentw'th.	b	86	49	0
Young ..	b	73	0	0
Woll'gong	b	67	55	0·05
Moss Vale	b	59	41	0·09
Euston ..	b	90	47	0
Goulburn	f	69	44	0·12
Wagga ..	b	80	46	0
Cape Geo.	b	64	55	0·09
Queanb'an	b	76	39	0·05
Deniliquin	b	81	45	0
Albury ..	f	82	41	0
Bodalla ..	f	71	46	59
Cooma ..	f	70	39	0
Eden	b	68	51	0
Gabo Isld.	b	67	54	0



WEATHER MAP,

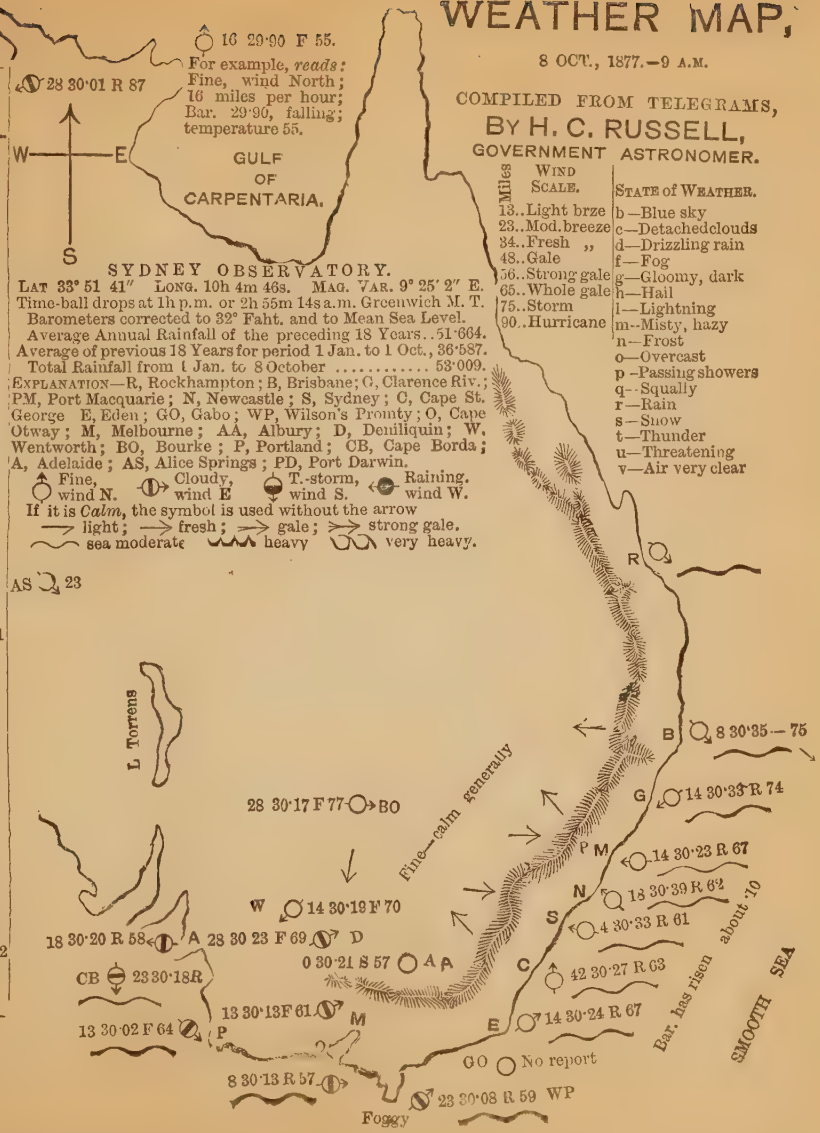
8 OCT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	g	74	36	0
Grafton ..	g	92	43	0
Inverell ..	b	82	42	0
Bourke ..	b	92	60	0
Narrabri..	b	89	46	0
Armidale.	b	71	42	0
Gunnedah	b	94	55	0
Tamworth	b	85	53	0
P. Macqrie	b	74	55	0
Murr'undi	b	78	50	0
Cassilis ..	b	80	49	0
Mus'brook	b	83	50	0
Dubbo ..	b	79	54	0
Mudgee ..	b	89	46	0
Maitland..	b	73	54	0
Newcastle	b	75	55	0
Orange ..	b	72	35	0
Bathurst..	b	82	37	0
MtVictoria	b	73	43	0
Forbes ..	g	75	53	0
SYDNEY ..	b	70	55	0·01
Wentw'th.	b	80	48	0
Young ..	b	81	0	0
Woll'gong	b	68	60	0
Moss Vale	b	68	48	0
Euston ..	b	86	61	0
Goulburn	b	77	45	0
Wagga ..	b	83	46	0
Cape Geo.	b	69	58	0
Queanb'an	b	82	47	0
Deniliquin	g	87	57	0
Albury ..	b	82	43	0
Bodalla ..	b	80	50	0
Cooma ..	b	77	43	0·02
Edeo	b	68	57	0
Gabo Isld.	..	..	..	..



WEATHER MAP,

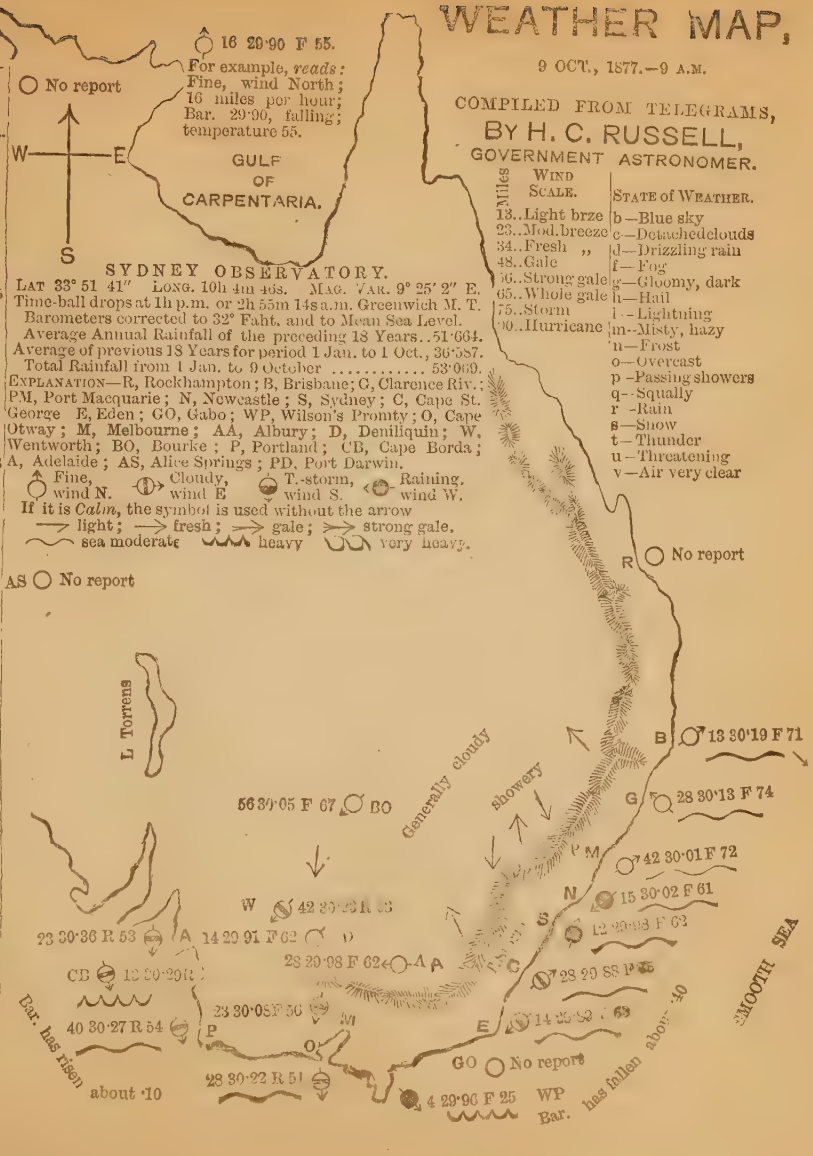
9 OCT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	b	76	42	0
Grafton ..	b	92	50	0
Inverell ..	c	83	48	0
Bourke ..	b	99	58	0
Narrabri ..	p	94	65	0
Armidale .	c	74	43	0
Gunnedah	t	95	56	0·15
Tamworth	u	88	50	0
P. Macqrie	b	73	59	0
Murr'undi	r	81	58	0
Cassilis ..	c	84	55	0
Mus'brook	c	87	54	0
Dubbo ..	o	84	65	0
Mudgee ..	u	88	56	0·18
Maitland ..	r	76	58	0
Newcastle	r	76	54	0·01
Orange ..	c	73	46	0·06
Bathurst ..	b	82	48	0·05
Mt Victoria	u	75	48	0·08
Forbes ..	c	78	60	0*
SYDNEY ..	r	77	59	0·06
Wentw'th.	c	80	51	0
Young ..	b	81	0	0
Woll'gong	c	69	63	0
Moss Vale	c	72	55	0
Euston ..	g	93	57	0·22
Goulburn	b	84	55	0
Wagga ..	b	86	55	0
Cape Geo.	c	66	60	0
Queanb'an	u	82	53	0·07
Deniliquin	b	81	51	0
Albury ..	b	85	47	0
Bodalla ..	..	..	..	..
Cooma ..	b	80	47	0·10
Eden	u	69	59	0·17
Gabo Isld.	..	..	..	..



WEATHER MAP,

10 OCT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterfi'ld	b	78	41	0·19
Grafton ..	b	94	49	0·35
Inverell ..	b	83	43	0·35
Bourke ..	b	82	56	0
Narrabri..	b	91	53	0
Armidale.	c	68	43	0·08
Gunnedah	b	85	54	0·14
Tamworth	b	80	46	0·08
P. Macqrie	o	75	59	0·01
Murr'undi	c	78	56	0·34
Cassilis ..	b	80	52	0
Mus'brook	c	87	52	0
Dubbo ..	b	84	54	0
Mudgee ..	g	82	50	0
Maitland..	c	71	57	0·10
Newcastle	c	72	51	0·40
Orange ..	c	68	37	0
Bathurst..	b	76	44	0
MtVictoria	c	72	37	0
Forbes ..	b	75	49	0
SYDNEY ..	u	73	54	0·09
Wentw'th.	c	70	46	0
Young ..	b	73	0	0
Woll'gong	b	71	56	0·55
Moss Vale	g	72	41	0·53
Euston ..	b	81	44	0
Goulburn	u	73	45	0·11
Wagga ..	b	80	47	0
Cape Geo.	p	64	49	0·61
Queanb'an	b	78	41	0·09
Deniliquin	b	71	43	0
Albury ..	b	78	42	0
Bodalla ..	p	74	44	1·15
Cooma ..	c	75	38	0·08
Eden	c	68	49	0·18
Gabo Isld.	..	..	..	..

PD

○ No report

W — E

S

16 29·90 F 55.

For example, *reads:* Fine, wind North; 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 18 Years..51·664.

Average of previous 18 Years for period 1 Jan. to 1 Oct., 36·587.

Total Rainfall from 1 Jan. to 10 October..... 53·161.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate heavy very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER.

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

AS ○ No report

L Torrens

28 30·09 R 64 BO

Generally cloudy

W 42 30·32 R 57

13 30·35 F 53 A 28 30·32 R 57 D

28 30·21 R 58 A A

showery

CB 18 30·35 R

18 30·30 R 58 M

34 30·35 R 53 P

O

13 30·33 R 54

23 30·22 R 54 WP

Bar. has risen about ·30

GO ○ No report

E 23 30·15 R 58

C 56 30·14 R 52

Gale

S 17 30·17 R 55

N 6 30·04 R 61

PM 42 30·01 S 66

G — 29·99 F 67

B 8 29·97 R 77

R

WEATHER MAP,

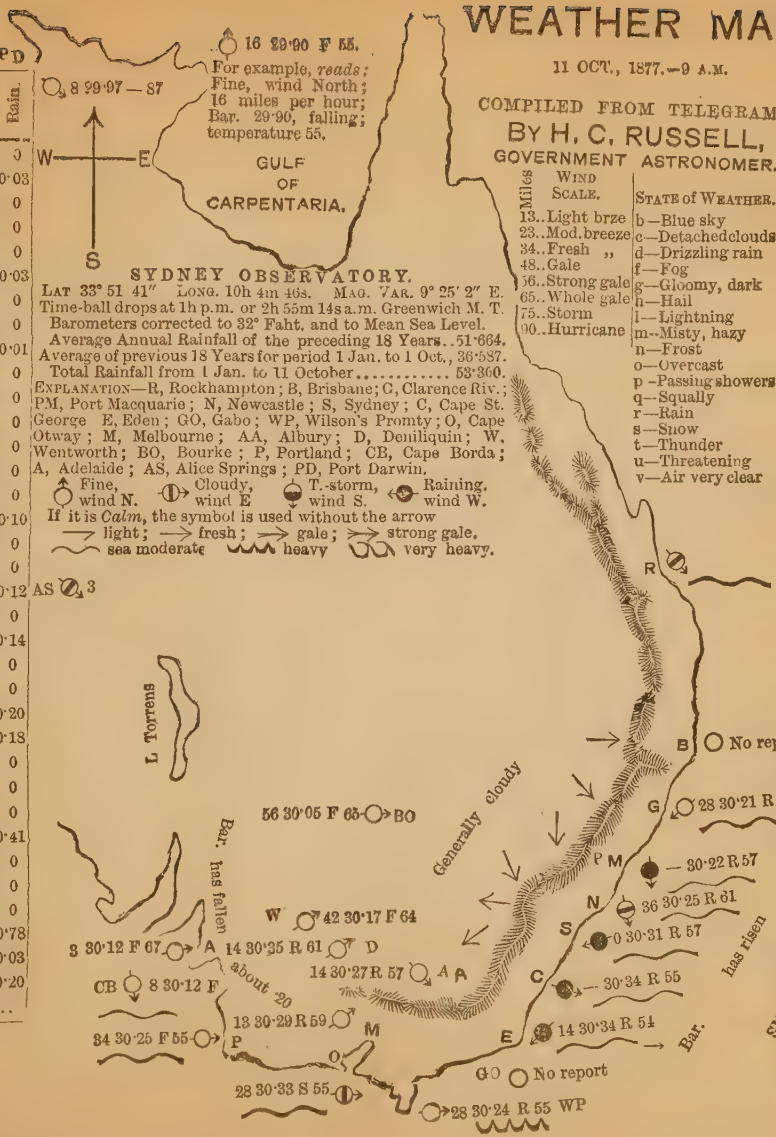
11 OCT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Tenterfi'ld	p	73	44	0
Grafton ..	b	89	45	0·03
Inverell ..	c	83	43	0
Bourke ..	c	82	60	0
Narrabri..	b	83	56	0
Armidale.	c	67	48	0·03
Gunnedah	g	82	53	0
Tamworth	u	78	52	0
P. Macqrie	r	68	54	0·01
Murr'undi	c	78	52	0
Cassilis ..	c	61	50	0
Mus'brook	c	69	49	0
Dubbo ..	b	83	52	0
Mudgee ..	c	76	50	0
Maitland..	g	65	50	0
Newcastle	g	76	51	0·10
Orange ..	c	70	33	0
Bathurst..	c	67	0	0
MtVictoria	p	55	37	0·12
Forbes ..	b	90	46	0
SYDNEY ..	c	60	52	0·14
Wentw'th.	b	75	58	0
Young ..	b	66	0	0
Woll'gong	p	66	57	0·20
Moss Vale	g	64	43	0·18
Euston ..	c	82	47	0
Goulburn	g	61	42	0
Wagga ..	b	78	45	0
Cape Geo.	c	57	50	0·41
Queanb'an	c	67	45	0
Deniliquin	b	75	49	0
Albury ..	b	72	41	0
Bodalla ..	r	64	43	0·78
Cooma ..	g	60	38	0·03
Eden	p	60	54	0·20
Gabo Isld.	..	..	..	..



WEATHER MAP,

12 OCT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterfi'ld	c	56	48	1·22
Grafton ..	u	74	58	0·18
Inverell ..	b	81	47	0·13
Bourke ..	b	85	59	0
Narrabri ..	c	70	56	0·26
Armidale .	c	70	43	0·15
Gunnedah	b	75	53	0·40
Tamworth	g	74	51	0·17
P. Macqrie	g	67	57	0·02
Murr'undi	u	78	52	0·15
Cassilis ..	t	63	53	0
Mus'brook	c	73	53	0·04
Dubbo ..	p	84	52	0
Mudgee ..	u	71	53	0
Maitland ..	r	67	55	0·11
Newcastle	g	77	52	0·20
Orange ..	u	65	43	0·10
Bathurst ..	u	63	48	0·06
MtVictoria	p	55	42	0·45
Forbes ..	c	69	51	0·19
SYDNEY ..	r	63	56	0·30
Wentw'th.	b	73	69	0
Young ..	p	71	0	0·08
Wol'gong	p	64	54	0·47
Moss Vale	r	58	45	0·08
Euston ..	b	84	55	0
Goulburn	r	64	55	0·08
Wagga ..	u	71	50	0
Cape Geo.	p	61	55	0·20
Queanb'an	c	64	46	0·02
Deniliquin	c	73	56	0
Albury ..	b	76	40	0
Bodalla ..	p	68	46	0·98
Cooma ..	g	61	36	0·01
Eden	c	60	51	0·44
Gabo Isld	c	60	55	0·05

PD 3 29·96 F 86

16 29·90 F 55.

For example, *reads*: Fine, wind North; 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

W — E

S

SYDNEY OBSERVATORY.

LAT 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 18 Years..51·664.

Average of previous 18 Years for period 1 Jan. to 1 Oct., 36·587.

Total Rainfall from 1 Jan. to 12 October ..... 53·660.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate heavy very heavy.

Miles	Wind Scale.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER.

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

AS 23

HOT WIND

L Torrens

42 30·01 F 71 BO

Generally cloudy

T.Storm

showery

R

B 13 30·20 — 68

G 14 30·19 F 64

PM 14 30·17 F 65

N 12 30·15 F 62

S 1 30·21 F 58

C 28 30·20 F 59

E 14 30·22 F 60

GO 2 30·22 — 58

23 30·06 F 59 WP

W 14 30·11 F 67

8 30·05 F 69 A 14 30·25 F 61 D

14 30·16 F 63 A A

CB 18 29·98F

13 30·12F 65 M

13 30·06 F 60 P

O

3 30·11 F 61

Bar. has fallen about ·20

WEATHER MAP,

13 OCT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterfi'ld	c	65	49	0·15
Grafton ..	b	72	55	0
Inverell ..	b	66	55	0 22
Bourke ..	b	89	55	0
Narrabri..	b	84	55	0
Armidale.	b	67	50	0·15
Gunnedah	b	84	51	0·19
Tamworth	b	72	50	0·36
P. Macqrie	..	..	..	..
Murr'undi	o	70	52	0·38
Cassilis ..	b	63	54	0·73
Mus'brook	o	73	53	0·15
Dubbo ..	b	75	52	0·67
Mudgee ..	b	69	47	0·30
Maitland..	n	68	47	0·25
Newcastle	b	71	55	0·68
Orange ...	b	58	33	0·45
Bathurst..	f	60	39	0·20
MtVictoria	b	57	40	0·40
Forbes ...	b	65	46	0
SYDNEY ...	b	63	54	0·37
Wentw'th.	b	84	53	0
Young ...	b	62	0	0·06
Woll'gong	o	64	55	1·10
Moss Vale	c	58	47	0·27
Euston ...	b	94	53	0
Goulburn	b	60	43	0·02
Wagga ..	b	66	45	0
Cape Geo.	p	63	57	0·79
Queanb'an	b	63	50	0·11
Deniliquin	b	72	49	0
Albury ..	o	76	40	0
Bodalla ..	p	67	48	0·69
Cooma ..	o	61	40	0·03
Eden	b	65	52	0·04
Gabo Isld	b	63	56	0·02

PD

16 29·90 F 55.
For example, *reads:* Fine, wind North; 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

W — E

S

SYDNEY OBSERVATORY.

LAT 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years.. 51·664.
Average of previous 18 Years for period 1 Jan. to 1 Oct., 36·587.
Total Rainfall from 1 Jan. to 13 October..... 53·972.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.
sea moderate heavy very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER.
b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

L Torrens

28 30·10 R 74 BO

Generally cloudy

showery

W — 30·06 F 75

3 29·94 F 70 A

0 29·97 F 64 D

0 30·14 F 62 A A

CB 13 29·90 R

18 30·02 F 63 M

28 29·85 F 65 P

28 29·94 F 67

Bar. has fallen about ·20

13 29·93 F 64 WP

28 30·09 F 61

14 30·14 F 62

42 30·11 F 59

0 30·14 F 62

12 30·18 R 64

14 30·10 F 69

13 30·10 F 74

R B G PM N S C E G O

SMOOTH SEA

WEATHER MAP,

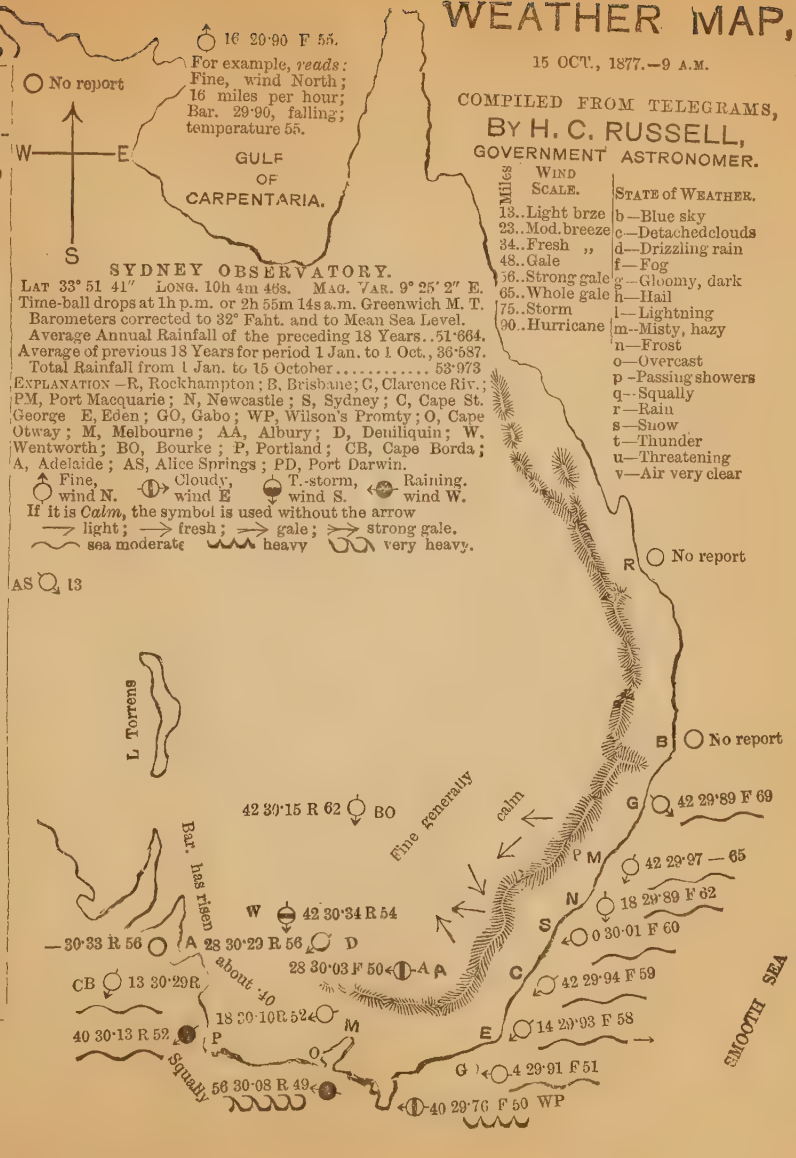
15 OCT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain
Tenterfi'ld	..	..	..	..
Grafton ..	b	74	57	0
Inverell ..	..	..	..	..
Bourke ..	b	85	48	0
Narrabri..	..	..	..	..
Armidale..	b	78	49	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	b	76	60	0
Murr'undi	b	84	47	0
Cassilis ..	b	82	41	0
Mus'brook	b	90	46	0
Dubbo ..	b	76	50	0
Mudgee ..	b	83	46	0
Maitland..	b	82	55	0
Newcastle	b	77	51	0
Orange ..	b	67	33	0
Bathurst..	b	76	32	0
MtVictoria	b	70	37	0
Forbes ..	b	69	46	0
SYDNEY ..	b	73	52	0
Wentw'th.	c	68	49	0
Young ..	b	76	0	0
Woll'gong	b	72	65	0
Moss Vale	b	71	40	0
Euston ..	b	85	37	0
Goulburn	b	73	39	0
Wagga ..	b	66	45	0
Cape Geo.	c	73	49	0
Queanb'an	b	73	39	0
Deniliquin	b	84	41	0
Albury ..	c	83	41	0
Bodalla ..	p	77	36	0
Cooma ..	b	75	36	0
Eden	b	62	50	0
Gabo Isld	b	63	50	0



WEATHER MAP,

16 OCT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	b	74	35	0
Grafton ..	b	86	52	0
Inverell ..	b	77	38	0
Bourke ..	b	75	48	0
Narrabri ..	b	81	43	0
Armidale .	b	68	40	0
Gunnedah ..	..	..	..	..
Tamworth	b	77	36	0
P. Macqrie	b	70	51	0
Murr'undi	b	73	45	0
Cassilis ..	b	70	36	0
Mus'brook	b	79	39	0
Dubbo ..	b	66	47	0
Mudgee ..	b	73	37	0
Maitland ..	n	74	47	0
Newcastle	b	76	54	0
Orange ...	o	59	36	0
Bathurst ..	b	66	28	0
Mt Victoria	o	60	34	0
Forbes ..	b	58	38	0
SYDNEY ..	b	71	53	0
Wentw'th.	b	71	43	0
Young ..	b	62	0	0
Woll'gong	b	66	57	0
Moss Vale	b	64	38	0
Euston ..	b	85	40	0
Goulburn	b	62	37	0
Wagga ..	b	70	40	0
Cape Geo.	b	65	49	0
Queanb'an	b	66	35	0
Deniliquin	b	68	39	0
Albury ..	b	69	33	0
Bodalla ..	b	71	35	0
Cooma ..	n	75	26	0
Eden	b	67	48	0
Gabo Isld	b	59	50	0

PD

No report

16 29·90 F 55.

For example, *reads:* Fine, wind North; 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 18 Years..51·664.

Average of previous 18 Years for period 1 Jan. to 1 Oct., 36·587.

Total Rainfall from 1 Jan. to 16 October..... 53·973

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate heavy very heavy.

WIND SCALE.

Miles	
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90 .	Hurricane

STATE of WEATHER.

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

AS 0

R 0

L Torrens

B 30·13 — 76

G No report

28 30·21 R 63 BO

Fine—calm generally

P M 28 30·12 R 64

N 21 30·10 R 62

S 30·16 R 50

W 14 30·36 R 70

frost

13 30·26 F 63 A 28 30·38 R 55 D

28 30·19 R 55 A A

C 28 30·10 R 58

SMOOTH SEA

CB 23 30·15F

18 30·24R 54 M

13 30·26 R 53 P

E 42 30·07 R 58

G 30·04 R 53

13 30·26 R 50

34 29·99 R 49 WP

Bar. has risen about ·20

WEATHER MAP.

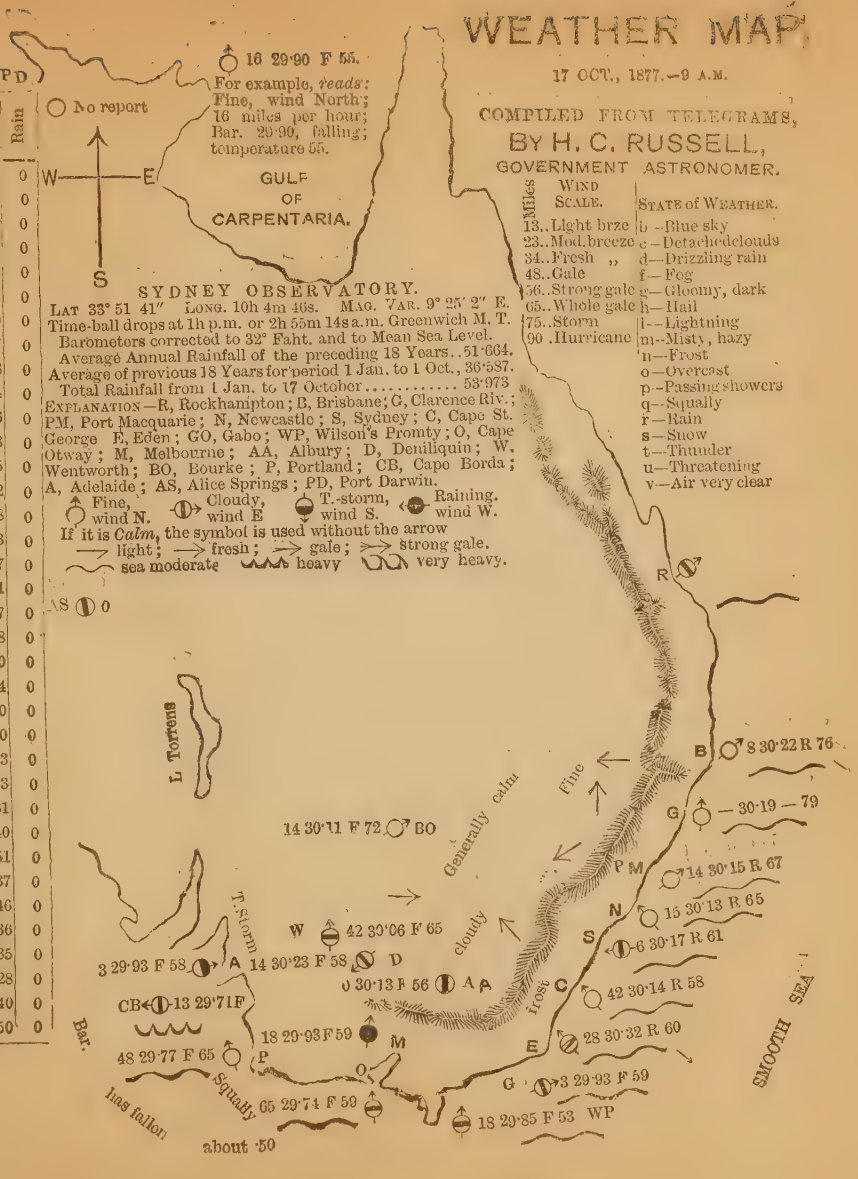
17 OCT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain
Tenterfi'ld	b	71	50	0
Grafton ..	b	91	55	0
Inverell ..	b	82	42	0
Bourke ..	b	81	49	0
Narrabri..	b	85	44	0
Armidale.	b	69	40	0
Gunnedah	b	86	40	0
Tamworth	b	77	37	0
P. Macqrie	b	69	48	0
Murr'undi	b	73	44	0
Cassilis ..	b	73	36	0
Mus'brook	b	78	43	0
Dubbo ..	b	71	45	0
Mudgee ..	b	75	42	0
Maitland..	b	71	48	0
Newcastle	b	77	53	0
Orange ..	b	62	27	0
Bathurst..	b	69	31	0
MtVictoria	b	63	37	0
Forbes ..	b	68	38	0
SYDNEY ..	o	66	50	0
Wentw'th.	g	78	54	0
Young ..	b	69	0	0
Woll'gong	b	64	50	0
Moss Vale	b	65	43	0
Euston ..	g	85	53	0
Goulburn	c	6[illegible]	31	0
Wagga ..	c	71	40	0
Cape Geo.	b	63	51	0
Queanb'an	c	70	37	0
Deniliquin	g	72	46	0
Albury ..	g	71	36	0
Bodalla ..	b	73	35	0
Cooma ..	n	62	28	0
Eden	o	54	40	0
Gabo Isld.	g	59	50	0

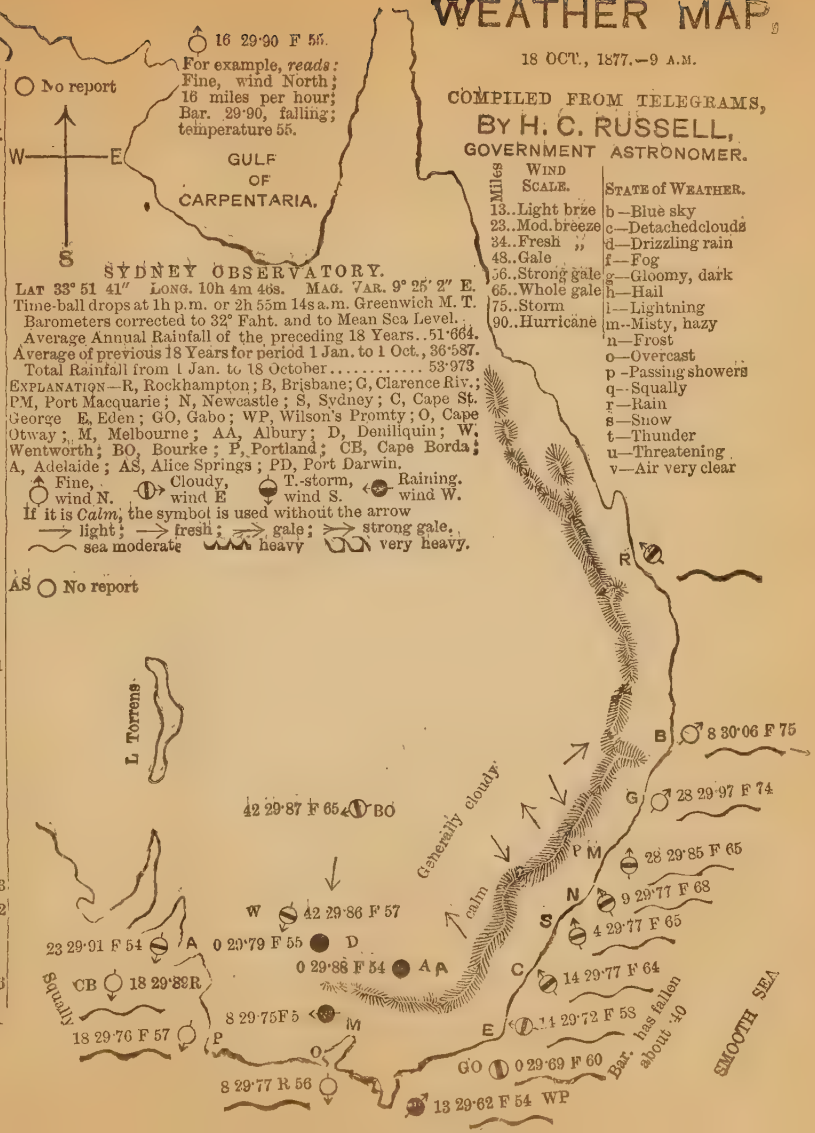


WEATHER MAP.

18 OCT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	b	74	50	0
Grafton ..	c	92	58	0
Inverell ..	c	81	52	0
Bourke ..	g	91	56	0
Narrabri ..	c	92	56	0
Armidale .	c	73	52	0
Gunnedah	c	83	54	0
Tamworth	g	85	34	0
P. Macqrie	g	75	63	0
Murr'undi	c	77	59	0
Cassilis ..	c	79	48	0
Mus'brook	b	88	50	0
Dubbo ..	c	76	53	0
Mudgee ..	o	79	47	0
Maitland ..	c	77	57	0
Newcastle	c	79	55	0
Orange ..	g	67	40	0
Bathurst ..	c	77	44	0
Mt Victoria	o	71	50	0
Forbes ..	o	71	58	0
SYDNEY ..	o	68	60	0
Wentw'th.	c	77	49	0·41
Young ..	g	75	0	0
Woll'gong	g	69	63	0
Moss Vale	b	72	54	0
Euston ..	g	78	54	0
Goulburn	c	75	51	0
Wagga ..	g	69	50	0
Cape Geo.	c	69	61	0
Queanb'an	c	68	52	0
Deniliquin	r	65	53	0·73
Albury ..	r	68	48	0·42
Bodalla ..	u	75	48	0
Cooma ..	o	71	49	0
Eden	u	67	55	0·06
Gabo Isld	u	64	57	0



WEATHER MAP,

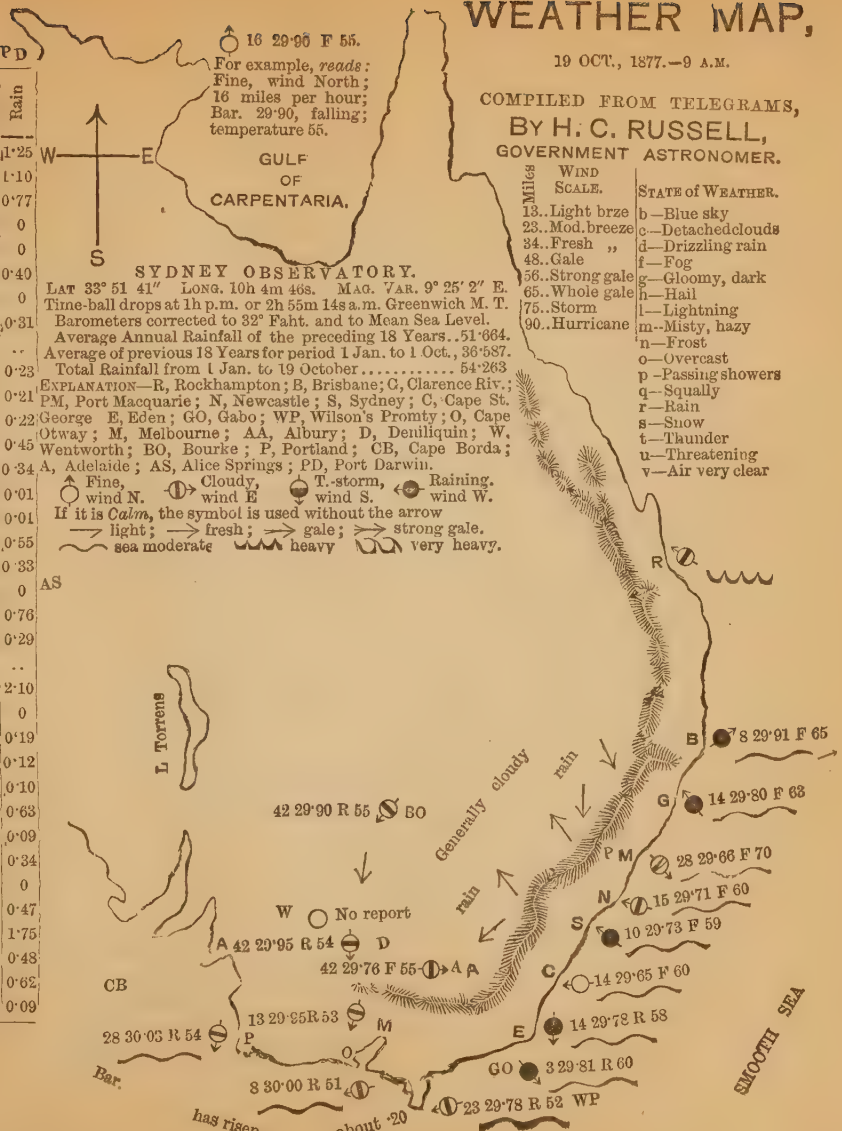
19 OCT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	c	76	50	1·25
Grafton ..	u	92	55	1·10
Inverell ..	g	83	55	0·77
Bourke ..	c	76	52	0
Narrabri..	u	80	59	0
Armidale.	u	70	55	0·40
Gunnedah	c	83	58	0
Tamworth	u	82	41	0·31
P. Macqrie	..	..	..	..
Murr'undi	r	77	58	0·23
Cassilis ..	b	78	56	0·21
Mus'brook	b	89	49	0·22
Dubbo ..	b	74	55	0·45
Mudgee ..	r	73	50	0·34
Maitland..	b	82	62	0·01
Newcastle	g	81	57	0·01
Orange ..	p	65	42	0·55
Bathurst..	p	73	46	0·33
MtVictoria	g	73	45	0
Forbes ..	r	71	57	0·76
SYDNEY ..	r	75	59	0·29
Wentw'th.	..	..	..	..
Young ..	g	69	..	2·10
Woll'gong	..	72	62	0
Moss Vale	r	73	52	0·19
Euston ..	u	81	47	0·12
Goulburn	c	72	51	0·10
Wagga ..	c	66	55	0·63
Cape Geo.	d	75	58	0·09
Queanb'an	p	67	53	0·34
Deniliquin	g	71	50	0
Albury ..	c	60	49	0·47
Bodalla ..	r	74	54	1·75
Cooma ..	r	63	48	0·48
Eden	r	64	56	0·62
Gabo Isld	d	62	57	0·09



WEATHER MAP,

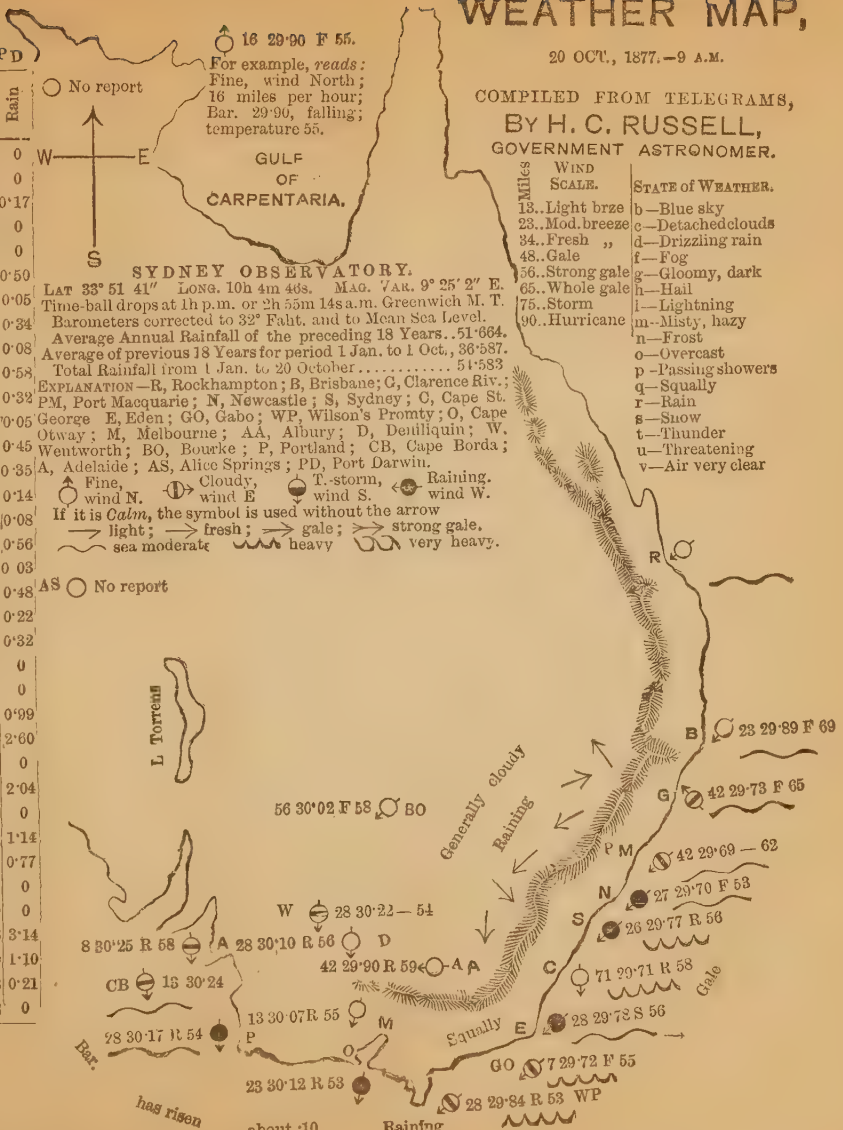
20 OCT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	g	61	45	0
Grafton ..	g	80	55	0
Inverell ..	g	70	49	0·17
Bourke ..	b	71	49	0
Narrabri ..	r	74	53	0
Armidale .	r	59	44	0·50
Gunnedah	o	77	51	0·05
Tamworth	p	70	33	0·34
P. Macqrie	o	73	53	0·08
Murr'undi	r	65	51	0·58
Cassilis ..	p	62	50	0·32
Mus'brook	o	76	43	0·05
Dubbo ..	o	71	53	0·45
Mudgee ..	g	63	48	0·35
Maitland ..	r	77	61	0·14
Newcastle	r	74	49	0·08
Orange ..	o	58	38	0·56
Bathurst ..	o	65	45	0 03
MtVictoria	p	73	40	0·48
Forbes ..	o	60	48	0·22
SYDNEY ..	r	67	53	0·32
Wentw'th.	g	66	50	0
Young ..	b	66	0	0
Woll'gong	c	69	58	0·99
Moss Vale	c	64	45	2·60
Euston ..	o	81	50	0
Goulburn	o	60	46	2·04
Wagga ..	b	66	45	0
Cape. Geo.	q	65	49	1·14
Queanb'an	b	59	47	0·77
Deniliquin	b	67	50	0
Albury ..	b	72	39	0
Bodalla ..	r	60	46	3·14
Cooma ..	c	62	39	1·10
Eden	p	65	53	0·21
Gabo Isld	q	59	52	0



WEATHER MAP,

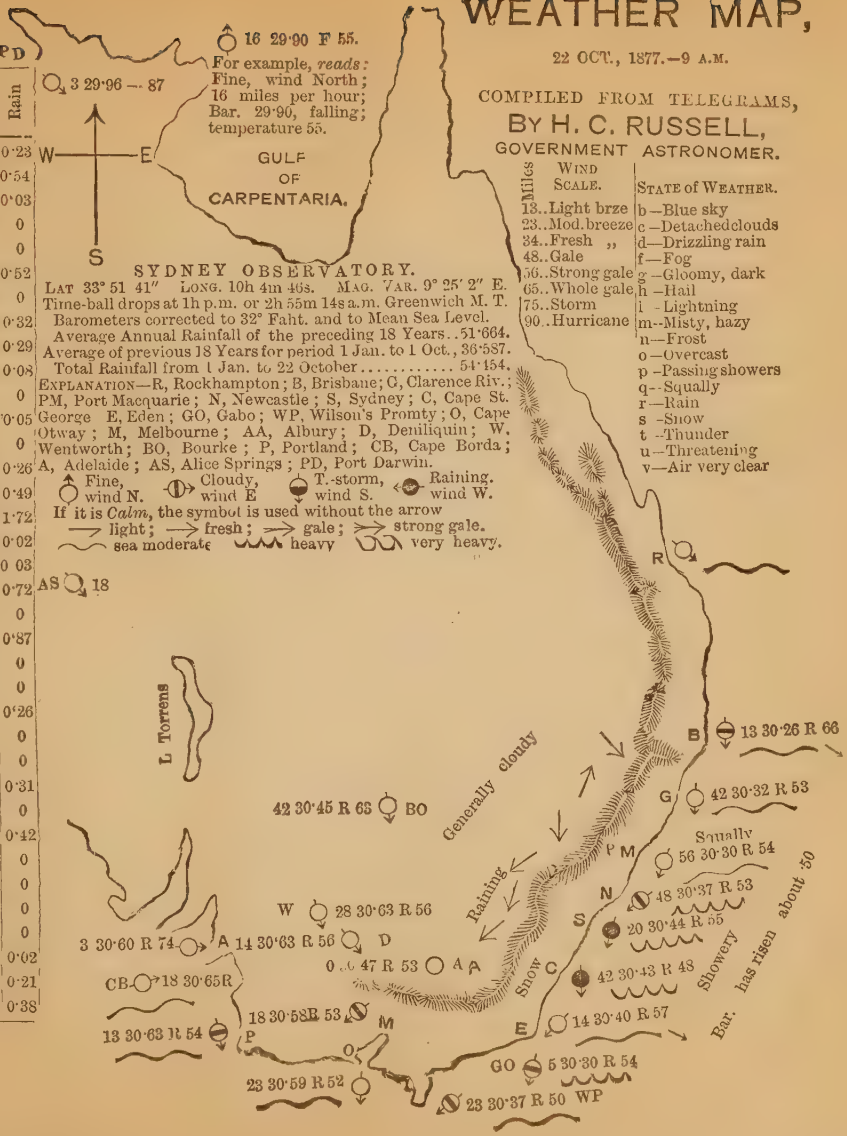
22 OCT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	c	69	56	0·23
Grafton ..	u	86	40	0·54
Inverell ..	b	79	41	0·03
Bourke ..	b	74	53	0
Narrabri..	b	82	52	0
Armidale.	c	63	44	0·52
Gunnedah	b	84	44	0
Tamworth	b	74	28	0·32
P. Macqrie	q	61	50	0·29
Murr'undi	u	66	48	0·08
Cassilis ..	b	63	47	0
Mus'brook	b	78	44	0·05
Dubbo ..	b	71	50	0
Mudgee ..	b	65	45	0·26
Maitland..	b	67	50	0·49
Newcastle	c	70	42	1·72
Orange ..	b	60	28	0·02
Bathurst..	b	69	35	0 03
MtVictoria	c	65	33	0·72
Forbes ..	b	67	4	0
SYDNEY ..	c	60	48	0·87
Wentw'th.	b	70	48	0
Young ..	b	67	0	0
Woll'gong	p	63	50	0·26
Moss Vale	r	68	39	0
Euston ..	b	82	43	0
Goulburn	c	67	37	0·31
Wagga ..	b	76	45	0
Cape Geo.	p	59	45	0·42
Queanb'an	c	67	48	0
Deniliquin	b	68	40	0
Albury ..	b	75	32	0
Bodalla ..	b	69	41	0
Cooma ..	g	59	35	0·02
Eden	b	60	46	0·21
Gabo Isld	g	56	48	0·38



WEATHER MAP,

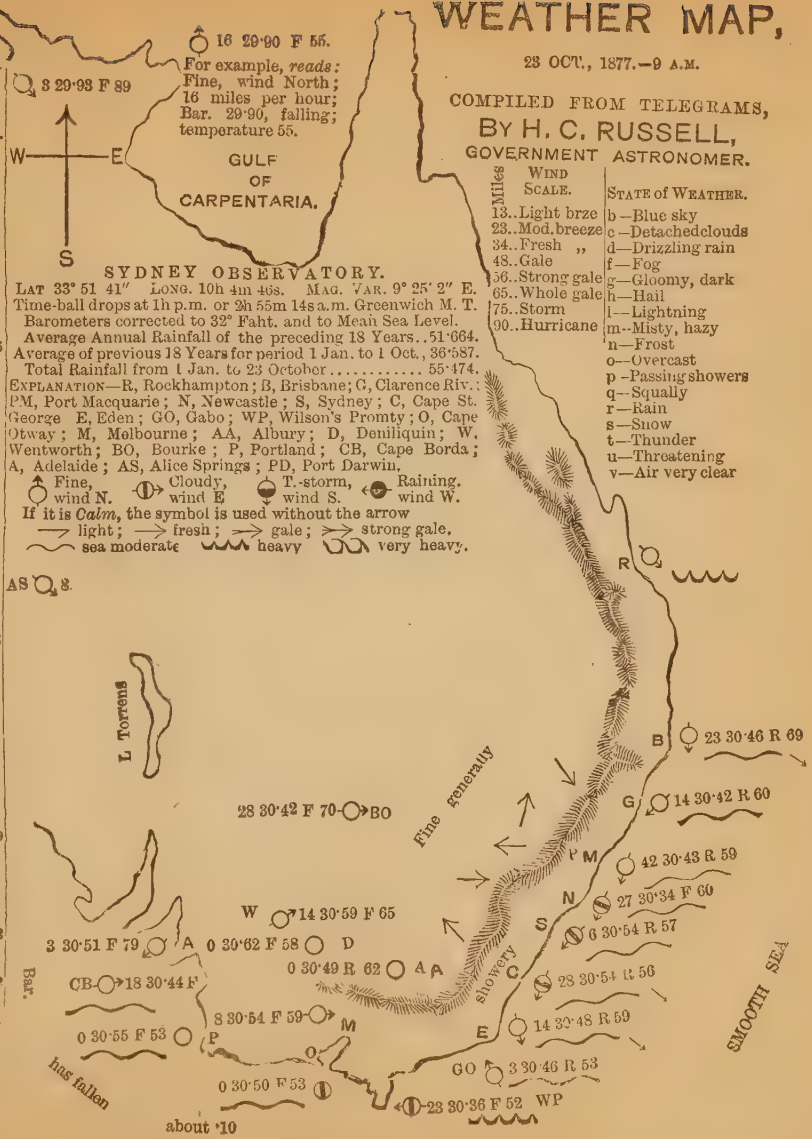
23 OCT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Tenterfi'ld	b	61	50	0
Grafton ..	b	76	50	0
Inverell ..	b	79	39	0
Bourke ..	b	79	50	0
Narrabri..	b	77	50	0
Armidale.	b	58	38	0
Gunnedah	b	56	41	0
Tamworth	b	70	21	0
P. Macqrie	b	63	49	0·16
Murr'undi	b	61	42	0
Cassilis ..	b	67	40	0
Mus'brook	b	77	41	0
Dubbo ..	b	74	51	0
Mudgee ..	b	73	41	0
Maitland..	b	66	47	0
Newcastle	c	77	45	0
Orange ..	b	61	30	0
Bathurst..	b	68	32	0
MtVictoria	b	62	50	0
Forbes ..	b	68	43	0
SYDNEY ..	c	59	49	0·02
Wentw'th.	b	74	44	0
Young ..	b	66	0	0
Woll'gong	b	61	56	0
Moss Vale	c	56	38	0
Euston ..	b	83	44	0
Goulburn	b	63	35	0
Wagga ..	b	73	44	0
Cape Geo.	c	58	52	0·09
Queanb'an	c	66	44	0
Deniliquin	b	70	30	0
Albury ..	b	73	38	0
Bodalla ..	b	67	40	0·52
Cooma ..	b	61	38	0
Eden	b	62	46	0·02
Gabo Isld	b	62	38	0



WEATHER MAP,

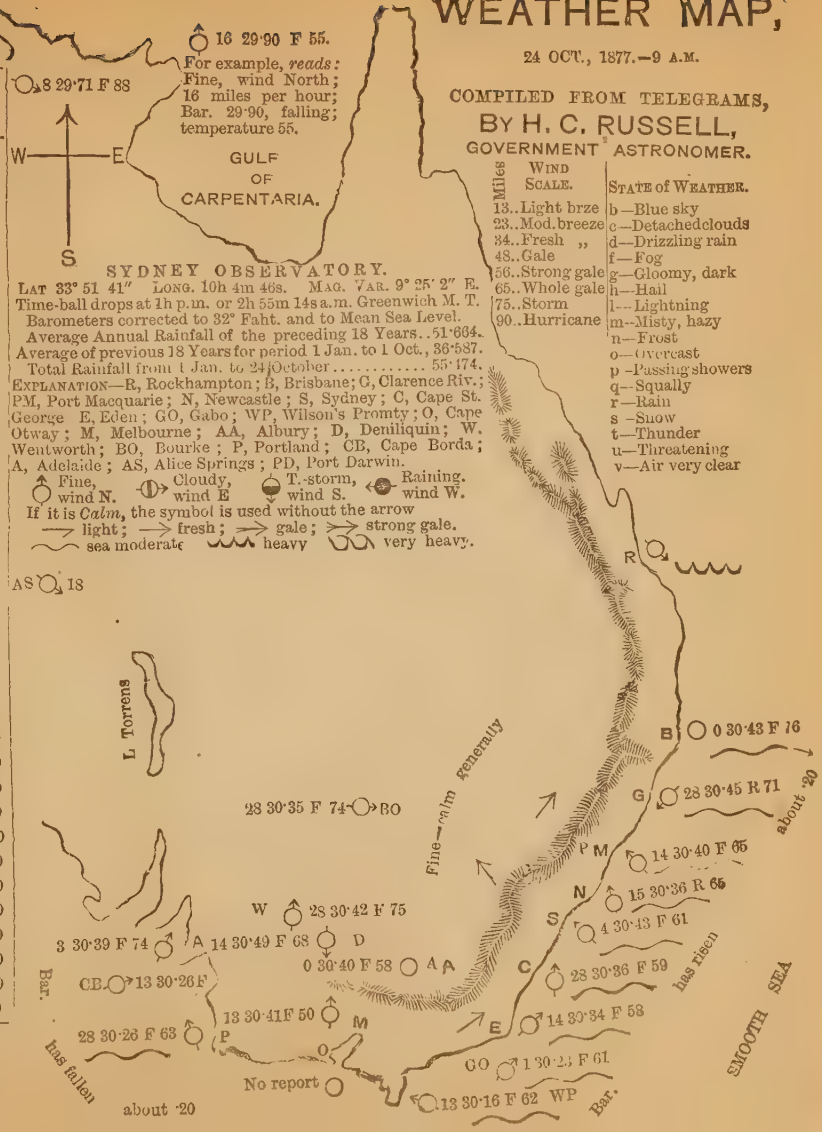
24 OCT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	b	64	55	0
Grafton ...	b	81	53	0
Inverell ...	b	79	42	0
Bourke ...	b	83	52	0
Narrabri...	b	86	47	0
Armidale.	b	62	38	0
Gunnedah	..	..	..	..
Tamworth	b	77	29	0
P. Macqrie	b	67	51	0
Murr'undi	b	68	46	0
Cassilis ...	b	77	41	0
Mus'brook	b	76	42	0
Dubbo ...	b	71	48	0
Mudgee ...	b	79	46	0
Maitland...	b	69	47	0
Newcastle	b	75	51	0
Orange ...	b	64	32	0
Bathurst...	b	74	35	0
MtVictoria	b	64	39	0
Forbes ...	b	70	44	0
SYDNEY ...	b	63	50	0
Wentw'th.	b	81	50	0
Young ...	b	73	0	0
Woll'gong	b	63	50	0
Moss Vale	b	65	42	0
Euston ...	b	89	45	0
Goulburn	b	71	38	0
Wagga ...	b	78	45	0
Cape Geo.	b	62	50	0
Queanb'an	b	73	45	0
Deniliquin	b	81	43	0
Albury ...	b	77	39	0
Bodalla ...	b	72	38	0
Cooma ...	b	70	35	0
Eden	b	64	48	0
Gabo Isld	b	67	49	0



WEATHER MAP.

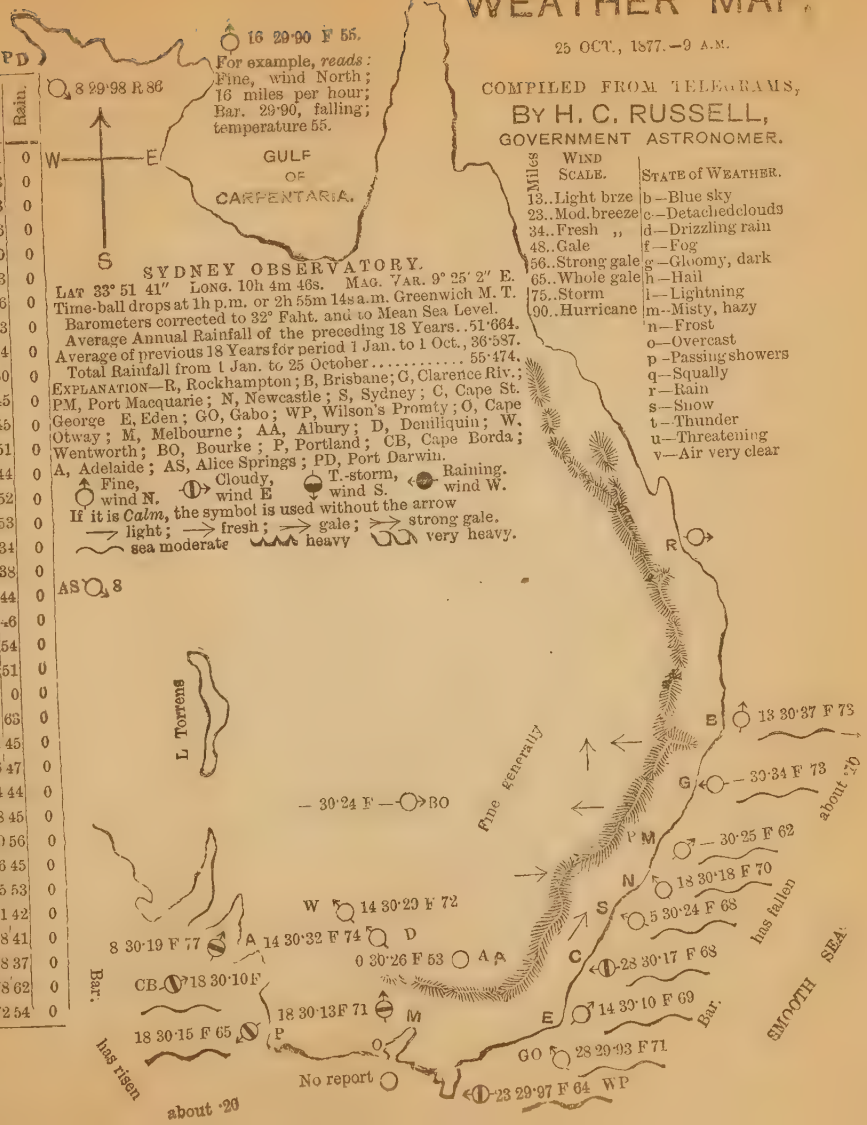
25 OCT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	b	70	61	0
Grafton ..	b	85	53	0
Inverell ..	b	77	43	0
Bourke ..	b	87	56	0
Narrabri ..	b	90	50	0
Armidale.	b	68	43	0
Gunnedah	b	89	46	0
Tamworth	b	80	43	0
P. Macqrie	b	70	54	0
Murr'undi	b	76	50	0
Cassilis ..	b	79	45	0
Mus'brook	b	81	45	0
Dubbo ...	b	75	51	0
Mudgee ..	b	81	44	0
Maitland..	b	72	52	0
Newcastle	b	75	53	0
Orange ...	b	67	34	0
Bathurst..	b	79	38	0
MtVictoria	b	70	44	0
Forbes ...	b	75	46	0
SYDNEY ..	b	71	54	0
Wentw'th.	b	89	51	0
Young ..	b	73	0	0
Woll'gong	b	70	63	0
Moss Vale	b	71	45	0
Euston ..	b	96	47	0
Goulburn	b	74	44	0
Wagga ..	b	78	45	0
Cape Geo.	c	69	56	0
Queanb'an	b	76	45	0
Deniliquin	b	85	53	0
Albury ..	b	81	42	0
Bodalla ..	b	78	41	0
Cooma ..	b	78	37	0
Eden	b	78	62	0
Cabo Isld	b	72	54	0



WEATHER MAP,

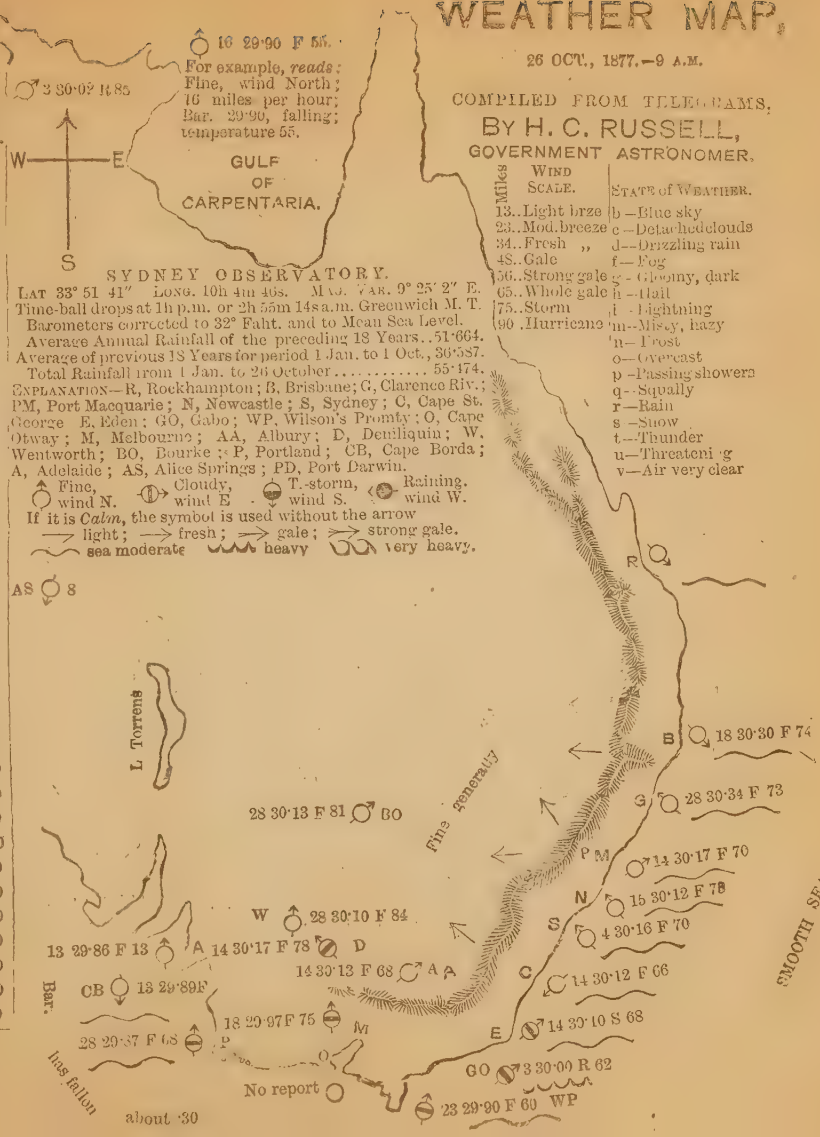
26 OCT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain
Tenterfi'ld	b	76	25	0
Grafton ..	b	94	53	0
Inverell ..	b	81	45	0
Bourke ..	b	95	63	0
Narrabri..	b	96	54	0
Armidale.	b	71	46	0
Gunnedah	b	98	49	0
Tamworth	b	85	41	0
P. Macqrie	b	75	58	0
Murr'undi	b	81	54	0
Cassilis ..	b	85	46	0
Mus'brook	b	90	49	0
Dubbo ..	b	76	52	0
Mudgee ..	b	87	48	0
Maitland..	b	81	50	0
Newcastle	b	83	57	0
Orange ..	b	71	32	0
Bathurst..	b	81	39	0
MtVictoria	b	73	49	0
Forbes ..	o	75	51	0
SYDNEY ..	b	82	58	0
Wentw'th.	b	95	61	0
Young ..	b	84	0	0
Woll'gong	b	75	65	0
Moss Vale	b	74	49	0
Euston ..	b	99	56	0
Goulburn	b	78	42	0
Wagga ..	b	88	54	0
Cape Geo.	b	75	59	0
Queanb'an	b	62	50	0
Deniliquin	c	92	51	0
Albury ..	b	87	47	0
Bodalla ..	c	88	47	0
Cooma ..	c	84	47	0
Eden	c	79	58	0
Cape Isld	c	77	54	0



WEATHER MAP,

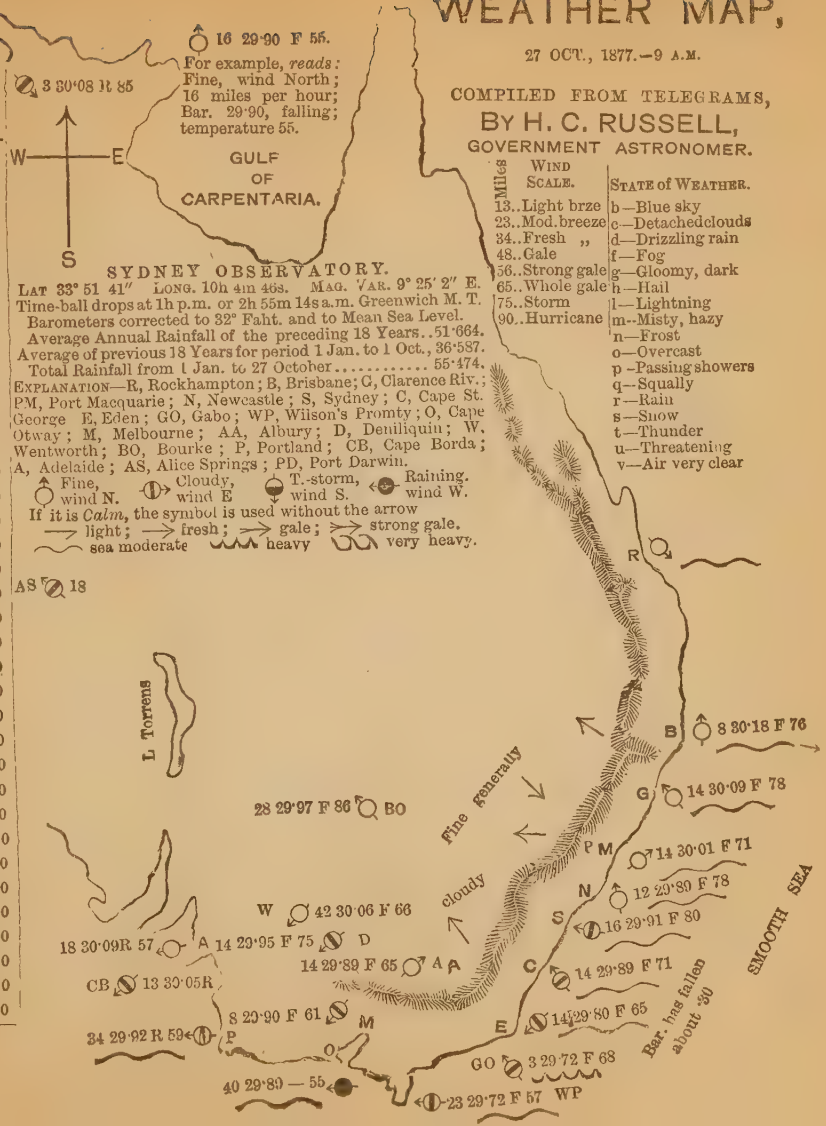
27 OCT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain
Tenterfi'ld	b	79	34	0
Grafton ..	b	93	34	0
Inverell ..	b	82	50	0
Bourke ..	b	*	67	0
Narrabri..	b	*	62	0
Armidale.	b	76	52	0
Gunnedah	b	*	53	0
Tamworth	..	..	..	..
P. Macqrie	b	76	56	0
Murr'undi	b	86	57	0
Cassilis ..	b	90	54	0
Mus'brook	b	96	52	0
Dubbo ..	b	84	59	0
Mudgee ..	b	90	51	0
Maitland..	b	82	52	0
Newcastle	b	84	56	0
Orange ..	b	76	42	0
Bathurst..	b	87	44	0
MtVictoria	c	79	60	0
Forbes ..	b	80	65	0
SYDNEY ..	c	81	59	0
Wentw'th.	b	*	59	0
Young ..	b	86	0	0
Woll'gong	b	75	60	0
Moss Vale	c	80	59	0
Euston ..	b	*	62	0
Goulburn	b	8-	50	0
Wagga ..	b	91	58	0
Cape Geo.	b	74	63	0
Queanb'an	b	86	52	0
Deniliquin	o	95	65	0
Albury ..	b	87	47	0
Bodalla ..	o	86	48	0
Cooma ..	b	82	45	0
Eden	o	72	58	0
Gabo Isld	o	73	60	0



SYDNEY OBSERVATORY.

LAT 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 18 Years..51·664.

Average of previous 18 Years for period 1 Jan. to 1 Oct., 36·587.

Total Rainfall from 1 Jan. to 27 October..... 55·474.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. — Cloudy, wind E — T.-storm, wind S. — Raining. wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate — heavy — very heavy.

Miles	Wind Scale.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER.

b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

WEATHER MAP,

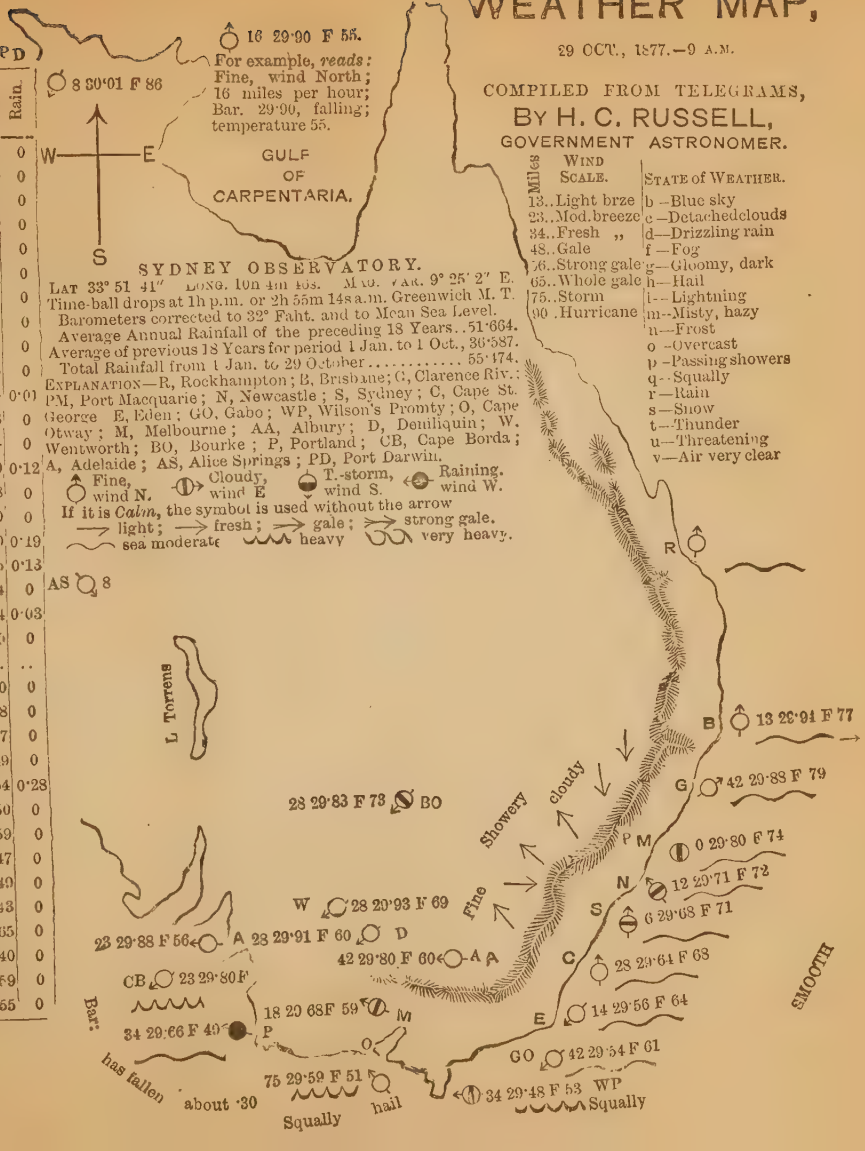
29 OCT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Tenterfi'ld	b	81	31	0
Grafton ..	b	103	31	0
Inverell ..	b	99	53	0
Bourke ..	c	100	60	0
Narrabri..	g	95	71	0
Armidale.	b	80	58	0
Gunnedah	o	99	64	0
Tamworth	g	89	44	0
P. Macqrie	g	77	63	0
Murr'undi	c	86	63	0
Cassilis ..	c	92	64	0·01
Mus'brook	c	99	63	0
Dubbo ..	c	89	64	0
Mudgee ..	p	76	60	0·12
Maitland..	g	91	68	0
Newcastle	g	91	60	0
Orange ..	r	76	50	0·19
Bathurst..	r	89	55	0·13
MtVictoria	o	76	54	0
Forbes ..	c	79	64	0·03
SYDNEY ..	g	85	70	0
Wentw'th.	..	..	..	..
Young ..	b	84	0	0
Woll'gong	b	78	68	0
Moss Vale	b	76	57	0
Euston ..	b	84	49	0
Goulburn	b	78	54	0·28
Wagga ..	b	91	50	0
Cape Geo.	b	85	59	0
Queanb'an	b	88	47	0
Deniliquin	b	88	49	0
Albury ..	b	88	43	0
Bodalla ..	b	82	65	0
Cooma ..	b	76	40	0
Eden	c	72	59	0
Gabo Isld	b	70	55	0



WEATHER MAP,

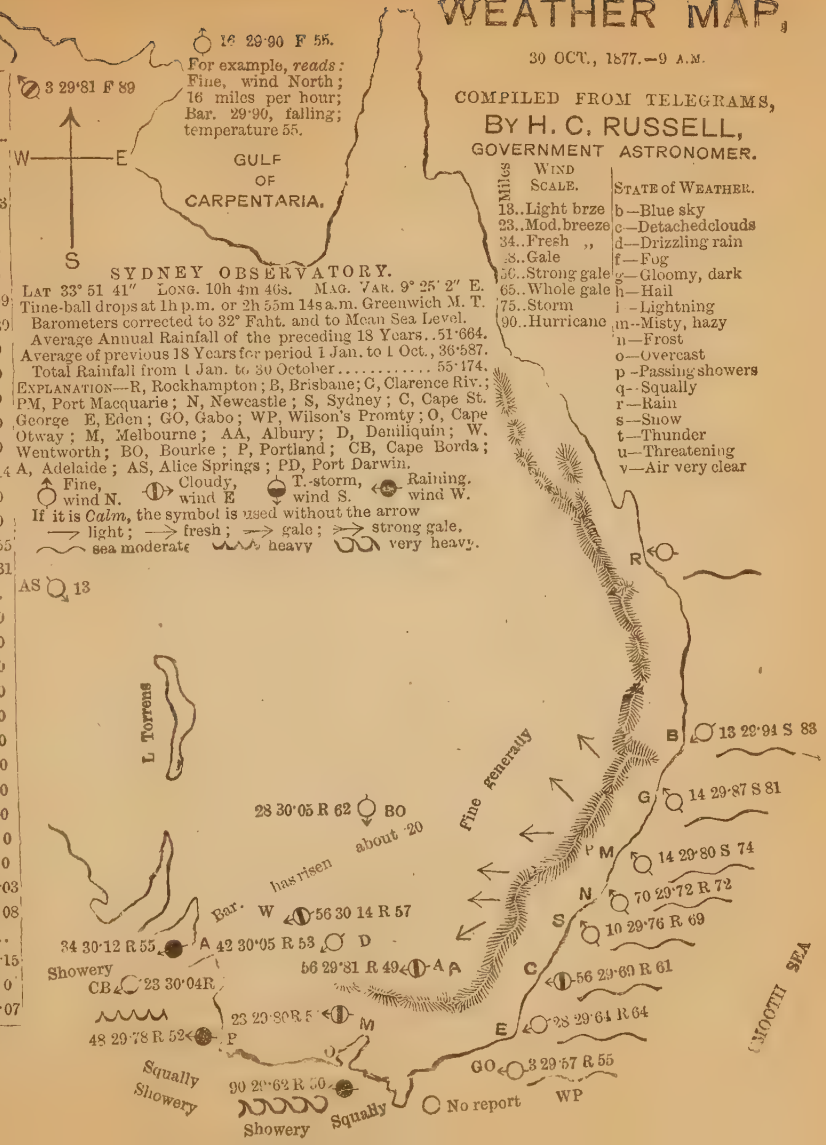
30 OCT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	b	76	40	0
Grafton ..	b	101	65	0
Inverell ..	b	94	60	0·03
Bourke ..	b	80	56	0
Narrabri..	b	90	61	0
Armidale.	b	81	58	0
Gunnedah	b	91	57	0·09
Tamworth	b	92	42	0·29
P. Macqrie	b	79	63	0
Murr'undi	b	85	59	0
Cassilis ..	b	77	58	0
Mus'brook	b	93	61	0
Dubbo ..	b	89	56	0
Mudgee ..	b	70	50	0·14
Maitland..	b	87	57	0
Newcastle	b	84	60	0
Orange ...	c	54	36	0·55
Bathurst..	c	65	45	0·31
MtVictoria	..	..	..	..
Forbes ..	b	73	51	0
SYDNEY ..	b	78	62	0
Wentw'th.	c	76	48	0
Young ..	c	75	0	0
Woll'gong	b	82	64	0
Moss Vale	b	73	48	0
Euston ..	b	81	45	0
Goulburn	c	74	31	0
Wagga ..	b	81	50	0
Cape Geo.	c	83	58	0
Queanb'an	b	76	47	0
Deniliquin	b	73	42	0·03
Albury ..	c	75	43	0·08
Bodalla ...	..	..	..	..
Cooma ..	g	75	38	1·15
Eden	b	70	49	0
Gabo Isld	b	68	46	0·07



WEATHER MAP,

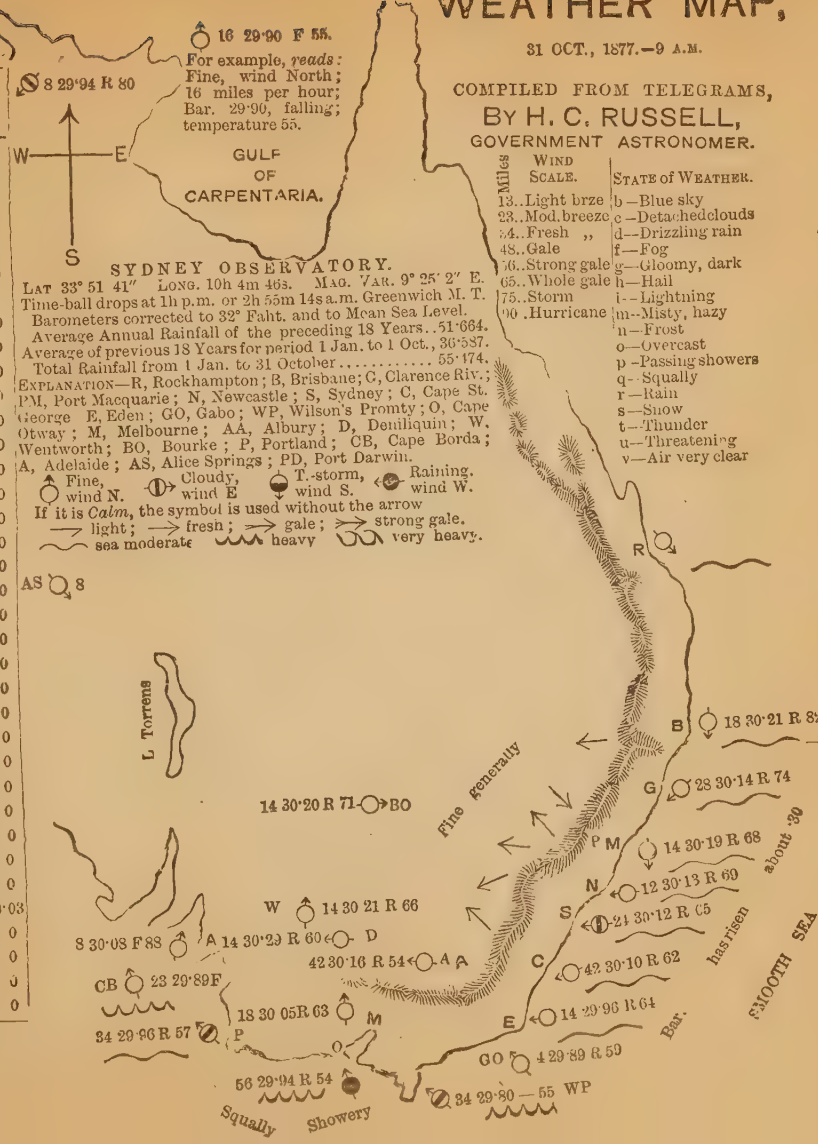
31 OCT., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain
Tenterfi'ld	b	76	35	0
Grafton ..	b	101	56	0
Inverell ..	b	87	43	0
Bourke ..	b	77	49	0
Narrabri..	b	84	44	0
Armidale..	b	74	42	0
Gunnedah ..		..	..	..
Tamworth	b	80	40	0
P. Macqrie	b	82	53	0
Murr'undi	b	75	45	0
Cassilis ..	b	77	40	0
Mus'brook	b	80	47	0
Dubbo ..	b	86	45	0
Mudgee ..	b	70	39	0
Maitland..	b	79	51	0
Newcastle	b	84	54	0
Orange ..	b	58	32	0
Bathurst..	b	73	32	0
MtVictoria	b	67	38	0
Forbes ..	b	65	40	0
SYDNEY ..	c	71	56	0
Wentw'th.	b	70	42	0
Young ..	b	67	0	0
Woll'gong	b	72	68	0
Moss Vale	b	73	44	0
Euston ..	b	69	37	0
Goulburn	b	68	44	0
Wagga ..	b	81	50	0
Cape Geo.	b	66	53	0
Queanb'an	b	66	47	0
Deniliquin	b	75	43	0
Albury ..	b	73	36	0·03
Bodalla ..	b	73	39	0
Cooma ..	b	61	40	0
Eden	b	70	45	0
Gabo Isld	b	62	41	0



WEATHER MAP,

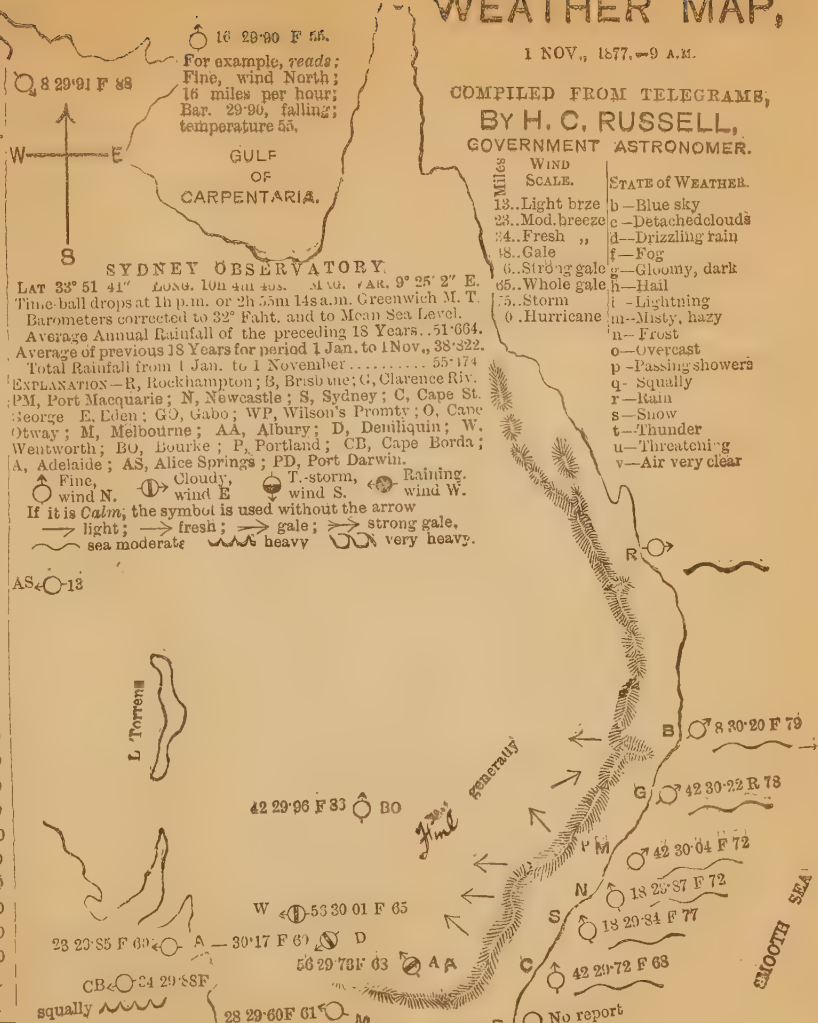
1 NOV., 1877,—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther	Max.	Min.	Rain
Tenterf'ld	b	81	49	0
Grafton ..	b	92	50	0
Inverell ..	b	87	42	0
Bourke ..	b	91	51	0
Narrabri..	b	99	48	0
Armidale.	b	79	45	0
Gunnedah	b	82	46	0
Tamworth	b	82	42	0
P. Macqrie	b	73	60	0
Murr'undi	b	78	55	0
Cassilis ..	b	81	46	0
Mus'brook	b	87	47	0
Dubbo ..	b	76	50	0
Mudgee ..	b	79	42	0
Maitland..	b	80	49	0
Newcastle	b	83	56	0
Orange ..	b	69	35	0
Bathurst..	b	83	35	0
MtVictoria	b	69	50	0
Forbes ..	b	72	58	0
SYDNEY ..	b	78	63	0
Wentw'th.	c	86	42	0
Young ..	c	76	0	0
Wol'gong	b	67	59	0
Moss Vale	b	74	45	0
Euston ..	c	83	56	0
Goulburn	b	71	45	0
Wagga ..	g	76	50	0
Cape Geo.	b	78	58	0
Queanb'an	b	78	45	0
Deniliquin	g	78	57	0
Albury ..	u	76	45	0
Bodalla ..	b	84	47	0
Cooma ..	g	75	51	0
Eden	..	..	..	..
Gabo Isld	..	..	..	..



WEATHER MAP,

2 NOV., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	b	80 58		0
Grafton ..	b	93 65		0
Inverell ..	..	..	..	..
Bourke ..	b	102 53		0
Narrabri ..	..	..	..	..
Armidale .	b	80 42		0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	c	86 61		0
Murr'undi	b	89 65		0
Cassilis ..	b	93 65		0
Mus'brook	b	97 50		0
Dubbo ..	b	85 62		0
Mudgee ..	b	85 42		0
Maitland ..	b	91 71		0
Newcastle	b	94 57		0
Orange ..	b	77 39		0
Bathurst ..	b	86 44		0
MtVictoria	b	78 46		0
Forbes ..	..	..	..	..
SYDNEY ..	b	91 66		0
Wentw'th.	c	77 45		0
Young ..	b	81 0		0
Wolf'gong	b	87 60		0
Moss Vale	b	81 50		0
Euston ..	c	81 46		0
Goulburn	b	81 49		0
Wagga ..	b	74 49		0
Cape Geo.	c	89 62		0
Queanb'an	..	..	..	..
Deniliquin	b	75 46		0
Albury ..	b	79 39		0
Bodalla ..	..	..	..	..
Cooma ..	b	73 40		0
Eden	..	..	..	..
Gabo Isld	..	..	..	..

WEATHER MAP,

3 NOV., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain
Tenterfi'ld	b	80	59	0
Grafton ..	b	104	69	0
Inverell ..	b	97	49	0
Bourke ..	b	87	57	0
Narrabri..	b	95	58	0
Armidale.	b	81	45	0
Gunnedah	b	92	58	0
Tamworth	b	88	53	0
P. Macqrie	b	81	60	0
Murr'undi	b	85	59	0
Cassilis ..	b	83	51	0
Mus'brook	b	90	58	0
Dubbo ..	b	85	55	0
Mudgee ..	b	77	49	0
Maitland..	b	86	66	0
Newcastle	b	93	55	0
Orange ..	o	67	32	0
Bathurst..	b	73	39	0
MtVictoria	b	69	35	0
Forbes ..	b	70	48	..
SYDNEY ..	b	81	47	0
Wentw'th.	q	59	40	0·06
Young ..	o	70	42	0
Woll'gong	b	74	57	0
Moss Vale	b	74	40	0
Euston ..	r	75	44	0·12
Goulburn	u	67	39	0
Wagga ..	u	77	47	0
Cape Geo.	b	76	51	0
Queanb'an	..	..	..	..
Deniliquin	r	70	42	0
Albury ..	c	60	42	0·41
Bodalla ..	..	..	..	..
Cooma ..	..	..	..	..
Eden	..	..	..	..
Gabo Isld	..	..	..	..

16 29·90 F 55.
For example, *reads*: Fine, wind North; 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

W — E

S

PD

AS

CB

L Torrens

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664.
Average of previous 18 Years for period 1 Jan. to 1 Nov., 38·822.
Total Rainfall from 1 Jan. to 3 November ..... 55·474.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E. Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. — Cloudy, wind E — T.-storm, wind S. — Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate — heavy — very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER.

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R

B No report

G No report

Fine generally

56 30·11 R 59 BO

PM 14 29·80 F 77

N 57 29·80 R 63

S 38 29·82 R 60

W 56 30·22 R 56

A 56 30·16 R 52 D

56 29·91 R 51 A A

C 56 29·59 F 57

SMOOTH SEA

23 29·87 R 53 M

E No report

48 29·89 R 52 P

O

GO No report

squally

Showery

48 29·58 F 47

squally

No report WP

WEATHER MAP,

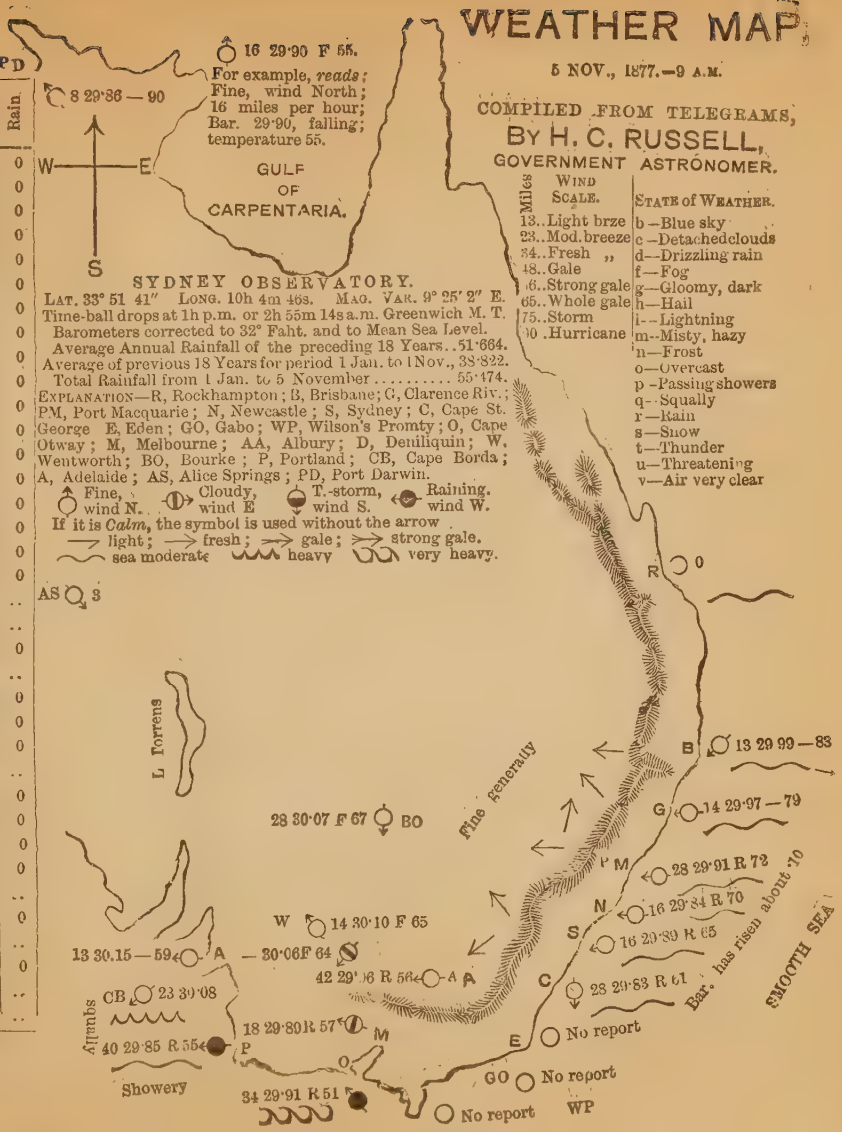
5 NOV., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	b	74	38	0
Grafton ..	b	98	51	0
Inverell ..	b	94	40	0
Bourke ..	b	82	53	0
Narrabri..	b	88	48	0
Armidale.	b	80	48	0
Gunnedah	b	84	44	0
Tamworth	b	81	41	0
P. Macqrie	b	82	53	0
Murr'undi	b	84	52	0
Cassilis ..	b	79	53	0
Mus'brook	b	86	56	0
Dubbo ..	b	79	48	0
Mudgee ..	c	73	51	0
Maitland..	b	80	60	0
Newcastle	b	87	55	0
Orange ..	b	64	39	0
Bathurst..	b	51	47	0
Mt Victoria	..	..	..	..
Forbes ..	..	..	..	..
SYDNEY ..	b	77	56	0
Wentw'th.	..	..	..	..
Young ..	b	66	47	0
Woll'gong	b	75	59	0
Moss Vale	c	65	45	0
Euston ..	..	..	..	..
Goulburn	c	64	41	0
Wagga ..	b	72	49	0
Cape Geo.	c	72	54	0
Queanb'an	c	66	47	0
Deniliquin	..	..	..	..
Albury ..	b	72	44	0
Bodalla ..	..	..	..	..
Cooma ..	c	63	36	0
Eden	..	..	..	..
Gabo Isld	..	..	..	..



SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 18 Years..51·664.

Average of previous 18 Years for period 1 Jan. to 1 Nov., 38·822.

Total Rainfall from 1 Jan. to 5 November ..... 55·474.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate heavy very heavy.

WEATHER MAP.

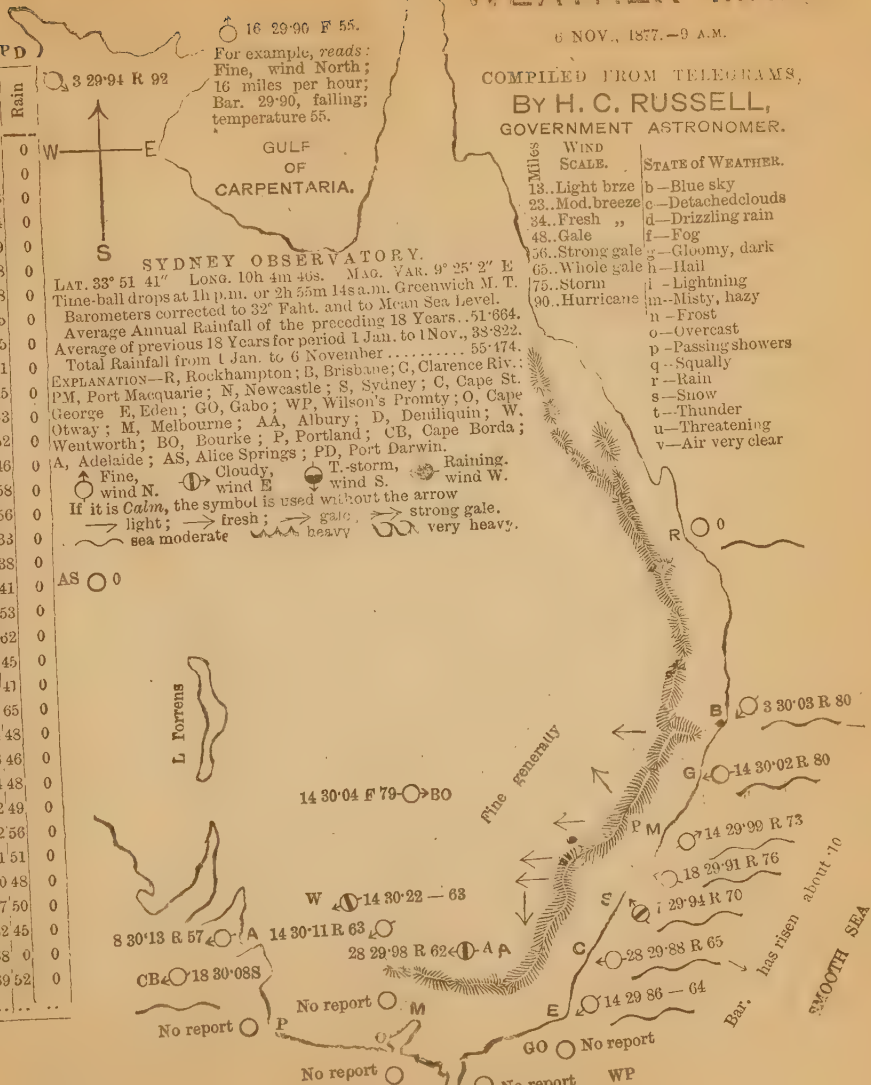
6 NOV., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther	Max.	Min.	Rain
Tenterfi'ld	b	70	0	0
Grafton ..	b	100	51	0
Inverell ..	b	95	43	0
Bourke ..	b	84	54	0
Narrabri ..	b	90	49	0
Armidale .	b	72	48	0
Gunnedah	b	87	58	0
Tamworth	b	83	45	0
P. Macqrie	b	79	55	0
Murr'undi	b	84	51	0
Cassilis ..	b	78	45	0
Mus'brook	b	84	53	0
Dubbo ..	b	76	52	0
Mudgee ..	b	73	46	0
Maitland ..	b	81	58	0
Newcastle	b	82	56	0
Orange ...	b	63	33	0
Bathurst ..	b	81	38	0
MtVictoria	b	64	41	0
Forbes ...	b	69	53	0
SYDNEY ...	c	75	62	0
Wentw'th.	g	79	45	0
Young ..	b	68	41	0
Woll'gong	b	73	65	0
Moss Vale	b	64	43	0
Euston ..	c	78	46	0
Goulburn	b	64	48	0
Wagga ..	b	72	49	0
Cape Geo.	c	72	56	0
Queanb'an	c	71	51	0
Deniliquin	b	70	48	0
Albury ..	g	67	50	0
Bodalla ..	b	82	45	0
Cooma ..	b	68	0	0
Eden	b	69	52	0
Gabo Isld.	..	..	..	..



WEATHER MAP,

7 NOV., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	b	98·38		0
Grafton ..	b	76·58		0
Inverell ..	b	95·43		0
Bourke ..	b	73·59		0
Narrabri ..	..	..	..	..
Armidale .	b	78·47		0
Gunnedah ..	..	..	..	..
Tamworth	b	82·43		0
P. Macqrie	b	78·55		0
Murr'undi	b	81·50		0
Cassilis ..	b	87·45		0
Mus'brook	b	93·55		0
Dubbo ..	b	81·53		0
Mudgee ..	b	83·47		0
Maitland ..	b	85·58		0
Newcastle	b	86·57		0
Orange ..	b	71·30		0
Bathurst ..	b	79·38		0
Mt Victoria	b	72·43		0
Forbes ..	b	71·48		0
SYDNEY ..	c	75·62		0
Wentw'th.	b	89·48		0
Young ..	b	75·46		0
Woll'gong	b	76·65		0
Moss Vale	c	73·46		0
Euston ..	b	79·45		0
Goulburn	b	74·38		0
Wagga ..	b	76·48		0
Cape Geo.	c	68·57		0
Queanb'an	b	74·45		0
Deniliquin	b	77·48		0
Albury ..	b	72·41		0
Bodalla ..	p	72·52		0
Cooma ..	..	..	..	..
Eden	c	69·55		0
Gabo Isld.	..	..	..	..

PD

No report

16 29·90 F 55.

For example, *reads*: Fine, wind North; 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 49s. MAG. VAR. 9° 25′ 2″ E

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 18 Years..51·664.

Average of previous 18 Years for period 1 Jan. to 1 Nov., 38·822.

Total Rainfall from 1 Jan. to 7 November..... 55·174.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv. PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate heavy very heavy.

WIND SCALE.

Miles	
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90 .	Hurricane

STATE of WEATHER.

b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

AS C

L Torrens

Bar. has fallen about ·10

28 30·01 F 66 BO

Fine generally

W — 30·12 F 71

3 30·06 F 67 A 14 30·17 R 69

0 30·04 R 65 AA

CB 13 30·01 F

8 30·03 — 63 M

28 30·01 — 57 P

8 30·02 — 59

Showery

R

B foggy 8 30·04 R 76

G 14 30·00 F 72

PM 0 30·00 R 71

N 12 30·08 R 71

S 12 30·02 R 69

C 14 30·01 R 66

E 14 30·02 R 64

GO No report

13 29·90 — 54 WP

Bar. has risen about ·10

SMOOTH SEA

WEATHER MAP,

8 NOV., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Tenterfi'ld	b	79	37	0
Grafton ..	b	104	64	0
Inverell ..	b	88	46	0
Bourke ..	b	97	61	0
Narrabri ..	b	100	61	0
Armidale .	b	80	48	0
Gunnedah	b	97	54	0
Tamworth	b	90	43	0
P. Macqrie	b	77	47	0
Murr'ndi	b	86	51	0
Cassilis ..	b	88	47	0
Mus'brook	b	96	50	0
Dubbo ..	b	83	52	0
Mudgee ..	b	85	49	0
Maitland ..	b	85	59	0
Newcastle	b	81	58	0
Orange ...	b	74	37	0
Bathurst ..	b	83	38	0
MtVictoria	b	77	46	0
Forbes ..	b	77	50	0
SYDNEY ...	b	75	60	0
Wentw'th.	b	88	60	0
Young ...	b	80	45	0
Woll'gong	b	72	69	0
Moss Vale	b	78	49	0
Euston ...	b	91	58	0
Goulburn	b	79	40	0
Wagga ...	b	81	47	0
Cape Geo.	c	73	58	0
Queanb'an	b	81	46	0
Deniliquin	b	86	56	0
Albury ..	b	81	42	0
Bodalla ..	b	78	51	0
Cooma ..	..	..	..	..
Eden	b	72	56	0
Gabo Isld	..	..	..	..

PD

No report

W — E

S

16 29·90 F 55.

For example, *reads*: Fine, wind North; 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664.
Average of previous 18 Years for period 1 Jan. to 1 Nov., 38·822.
Total Rainfall from 1 Jan. to 8 November ..... 55·475.

EXPLANATION.—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate heavy very heavy.

Miles Wind Scale.

13..Light brze
23..Mod. breeze
34..Fresh ,,
48..Gale
56..Strong gale
65..Whole gale
75..Storm
90..Hurricane

STATE of WEATHER.

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

AS 8

L. Torrens

28 29·35 F 85 BO

Fine generally

R 0

B 13 30·07 R 80

G 28 30·01 R 83

PM 0 30·03 F 74

N 18 29·97 F 73

S 3 29·97 F 74

W 42 29·93 F 77

D

18 30·03 F 57 A

28 29·91 F 82

0 29·93 F 64 A A

C 28 29·95 F 68

CB 18 29·97 F

18 29·67 F 77 M

E 14 29 81 F 69

28 29·79 F 56 P

O

GO No report

8 29·77 F 59

3 29·65 F 60 WP

SMOOTH SEA

Bar. has fallen about ·30

WEATHER MAP,

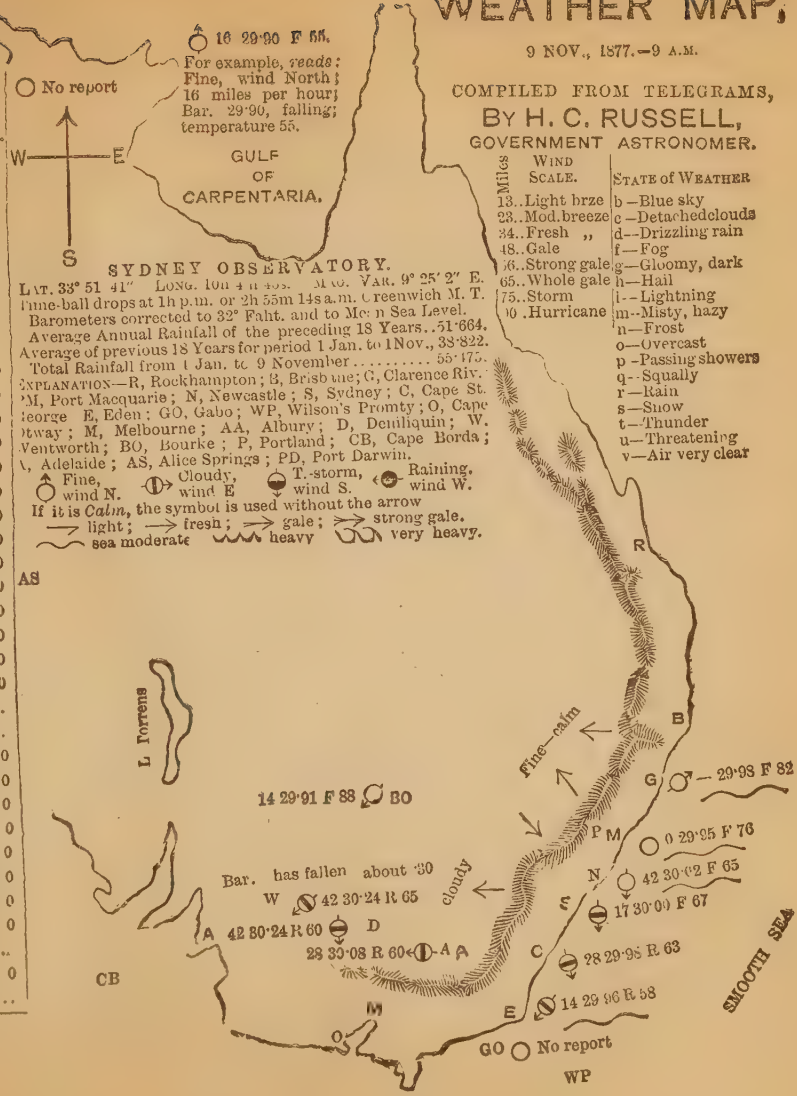
9 NOV., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	b	88	30	0
Grafton ..	b	100	64	0
Inverell ..	b	91	51	0
Bourke ..	b	106	64	0
Narrabri..	b	103	58	0
Armidale.	b	84	51	0
Gunnedah ..	..	..	..	..
Tamworth	b	95	50	0
P. Macqrie	b	79	5	0
Murr'undi	b	92	60	0
Cassilis ..	b	98	55	0
Mus'brook	b	107	55	0
Dubbo ..	b	90	55	0
Mudgee ..	o	93	53	0
Maitland..	b	91	60	0
Newcastle	b	80	61	0
Orange ..	b	82	62	0
Bathurst..	b	93	47	0
MtVictoria	b	85	62	0
Forbes ..	b	87	63	0
SYDNEY ..	g	79	62	0
Wentw'th.	g	86	58	0
Young ..	b	92	56	0
Woll'gong	b	..	..	..
Moss Vale	..	..	..	..
Euston ..	o	87	54	0
Goulburn	b	88	50	0
Wagga ..	b	93	60	0
Cape Geo.	q	78	61	0
Queanb'an	b	90	54	0
Deniliquin	g	96	54	0
Albury ..	o	95	55	0
Bodalla ..	r	89	52	0
Cooma ..	..	..	..	..
Eden	o	75	55	0
Gabo Isld	..	..	..	..



WEATHER MAP,

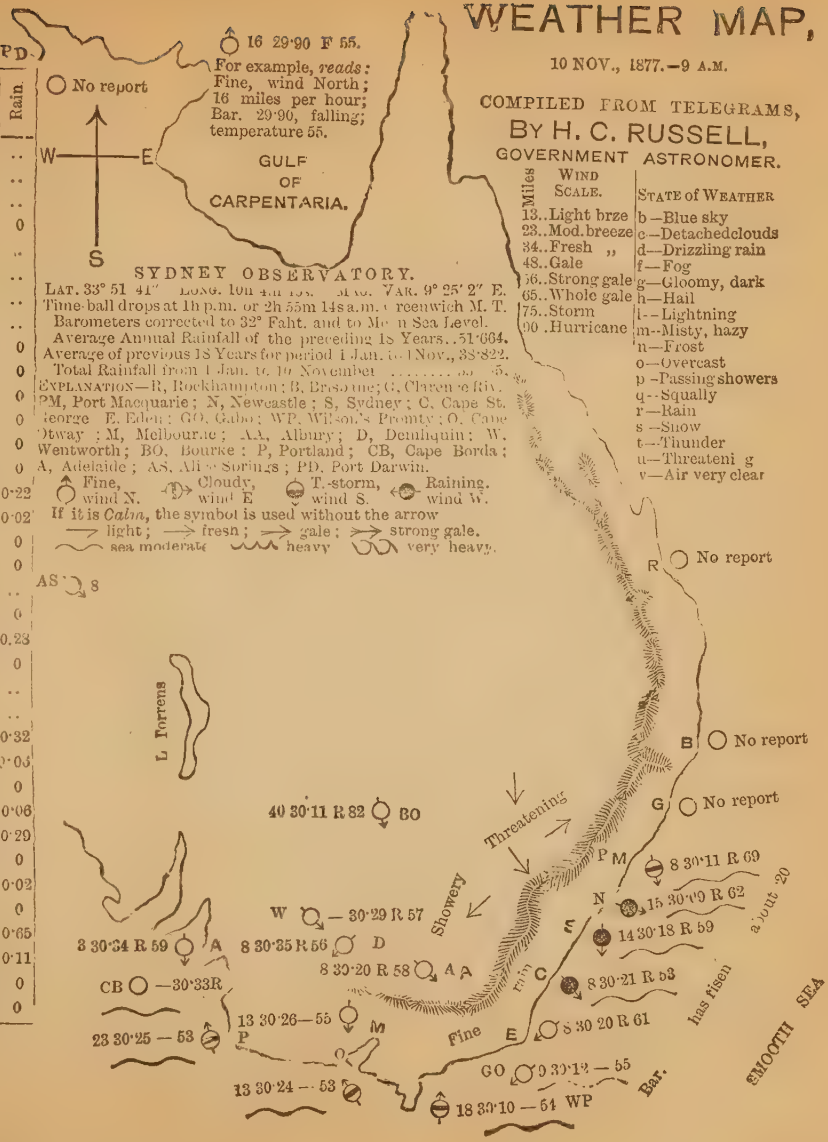
10 NOV., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterd'ld	..	..	..	..
Grafton ..	..	..	..	..
Inverell ..	..	..	..	..
Bourke ..	b	83	64	0
Narrabri..	..	..	..	..
Armidale.	..	..	..	..
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	o	81	68	0
Murr'undi	o	96	62	0
Cassilis ..	o	102	62	0
Mus'brook	o	101	35	0
Dubbo ..	..	91	65	0
Mudgee ..	o	90	60	0
Maitland..	o	82	64	0·22
Newcastle	r	80	61	0·02
Orange ..	c	85	46	0
Bathurst..	c	95	55	0
Mt Victoria	..	..	..	..
Forbes ..	o	89	58	0
SYDNEY ..	d	71	57	0.23
Wentw'th.	b	58	47	0
Young ..	..	..	..	..
Woll'gong	..	..	..	..
Moss Vale	r	78	48	0·32
Euston ..	b	87	36	0·03
Goulburn	r	79	46	0
Wagga ..	b	87	37	0·06
Cape Geo.	p	64	52	0·29
Queanb'an	o	82	50	0
Deniliquin	b	60	33	0·02
Albury ..	b	68	34	0
Bodalla ..	o	67	42	0·65
Cooma ..	o	70	40	0·11
Eden	b	69	59	0
Gabo Isld	b	58	50	0



WEATHER MAP;

12 NOV., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Tenterf'ld	u	70	35	0
Grafton ..	u	85	67	0·14
Inverell ..	..	..	..	..
Bourke ..	b	84	62	0
Narrabri ..	u	88	48	0·18
Armidale .	u	78	56	0·18
Gunnedah	..	..	..	..
Tamworth	u	90	52	0·20
P. Macqrie	u	76	66	0
Murr'undi	g	84	53	0
Cassilis ..	g	87	59	0
Mus'brook	b	99	56	0
Dubbo ..	b	95	62	0
Mudgee ..	u	82	54	0
Maitland ..	g	84	60	0
Newcastle	c	86	60	0
Orange ..	b	73	39	0
Bathurst ..	b	87	43	0
Mt Victoria	b	72	47	0·12
Forbes ..	b	75	51	0
SYDNEY ..	c	79	61	0·04
Wentw'th.	c	78	48	0
Young ..	b	83	58	..
Woll'gong	..	..	..	..
Moss Vale	b	74	50	0
Euston ..	b	90	34	0
Goulburn	b	77	41	0
Wagga ..	b	87	55	0
Cape Geo.	c	81	60	0
Queanb'an	b	80	44	0
Deniliquin	b	81	45	0
Albury ..	b	80	36	0
Bodalla ..	..	.	..	..
Cooma ..	b	75	36	0
Eden	b	71	31	0
Gabo Isld.	g	79	51	0

PD

No report

W E S

16 29·90 F 56.

For example, *reads*: Fine, wind North; 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 19s. VAR. 9° 25′ 2″ E.

Fine-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 18 Years..51·664.

Average of previous 18 Years for period 1 Jan. to 1 Nov., 38·822.

Total Rainfall from 1 Jan. to 12 November ..... 35·79

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv. M, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale, sea moderate heavy very heavy.

Miles	Wind Scale.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
100..	Hurricane

State of Weather
b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Cloudy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

AS 8

R No report

L Torrens

23 30·10 F 77 BO

Generally rain

Threatening

Fine

B 13 30·05 — 81

G 28 30·01 — 73

P M 28 30·03 F 66

N 15 30·03 F 67

S 12 30·09 F 69

W 14 30·31 R 63

8 30·30 F 61 A 14 30·23 F 64 D

28 30·12 F 62 A A

CB 8 30·40 R

C 42 30·08 F 60

13 30·20 F 57 M

28 30·21 F 54 P

E 42 29·81 F 66

O

GO 56 30·00 F 56

30·18 F 55

18 30·01 F 55 WP

Bar. has fallen about ·10

SMOOTH SEA

WEATHER MAP,

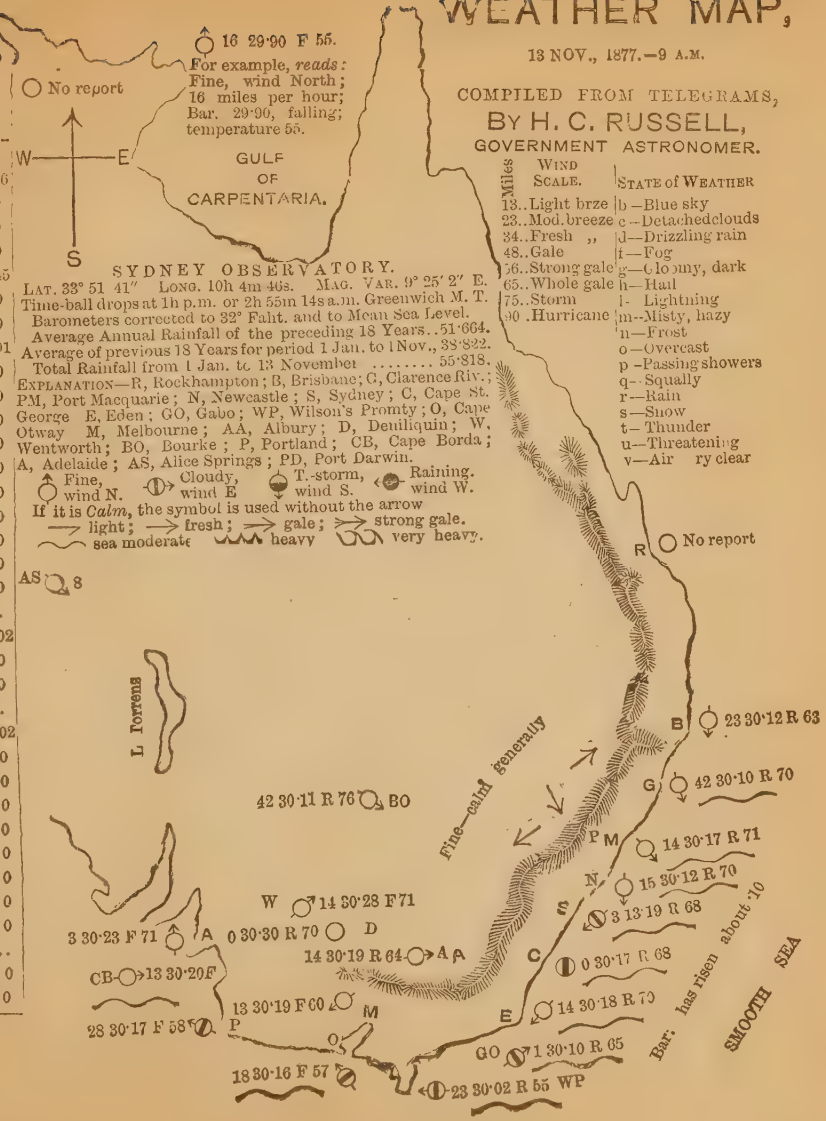
13 NOV., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	c	66	35	0
Grafton ..	c	85	51	0·06
Inverell ..	b	92	46	0
Bourke ..	b	92	60	0
Narrabri..	b'	91	52	0
Armidale.	b	70	49	0·45
Gunnedah	b	85	54	0
Tamworth	b'	81	52	0
P. Macqrie	b'	72	56	0·01
Murr'undi	b'	83	51	0
Cassilis ..	b	85	62	0
Mus'brook	b	88	55	0
Dubbo ..	b	94	61	0
Mudgee ..	b	89	56	0
Maitland..	b	79	59	0
Newcastle	b	84	61	0
Orange ..	b	74	40	0
Bathurst..	b	85	45	0
MtVictoria	c	78	54	0
Forbes ..	..	..	..	..
SYDNEY ..	c	71	60	0·02
Wentw'th.	b	81	52	0
Young ..	b	81	38	0
Woll'gong	..	..	..	..
Moss Vale	c	73	..	0·02
Euston ..	b	84	48	0
Goulburn	b	82	51	0
Wagga ..	b	85	49	0
Cape Geo.	c	69	57	0
Queanb'an	b	83	49	0
Deniliquin	b	85	48	0
Albury ..	b	78	41	0
Bodalla ..	b'	73	45	0
Cooma ..	..	..	..	..
Eden	b'	72	54	0
Cabo Isld	c	68	50	0



WEATHER MAP,

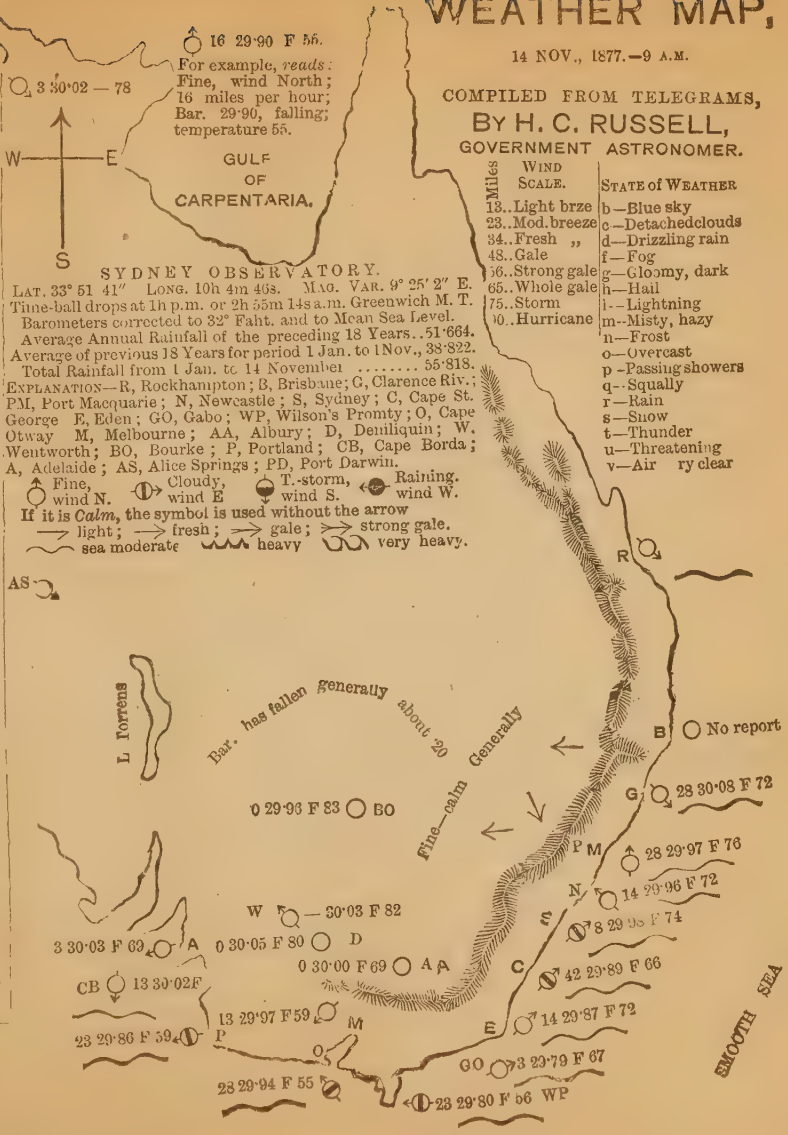
14 NOV., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain
Tenterfi'ld	b	74	41	0
Grafton ..	b	87	60	0
Inverell ..	b	87	51	0
Bourke ..	b	96	63	0
Narrabri..	b	99	63	0
Armidale.	b	73	53	0
Gunnedah.	b	94	59	0
Tamworth ..		....		.
P. Macqrie	..	..	..	..
Murr'undi	b	85	51	0
Cassilis ..	b	93	55	0
Mus'brook.	b	93	59	0
Dubbo ..	b	90	60	0
Mudgee ..	b	91	58	0
Maitland..	b	84	62	0
Newcastle	b	84	62	0
Orange ..	b	81	42	0
Bathurst..	b	89	49	0
MtVictoria	..	..	..	..
Forbes ..	b	81	55	0
SYDNEY ..	c	74	61	..
Wentw'th.	b	90	57	0
Young ..	b	89	50	0
Wolf'gong	..	..	..	..
Moss Vale	c	78	55	0
Euston ..	b	95	51	0
Goulburn	b	85	51	0
Wagga ..	b	89	52	0
Cape Geo.	c	76	63	0
Queanb'an	b	87	50	0
Deniliquin	b	98	54	0
Albury ..	b	88	45	0
Bodalla ..	b	86	51	0
Cooma ..	..	..	..	..
Eden	b	72	66	0
Gabo Isld	b	70	66	0



WEATHER MAP,

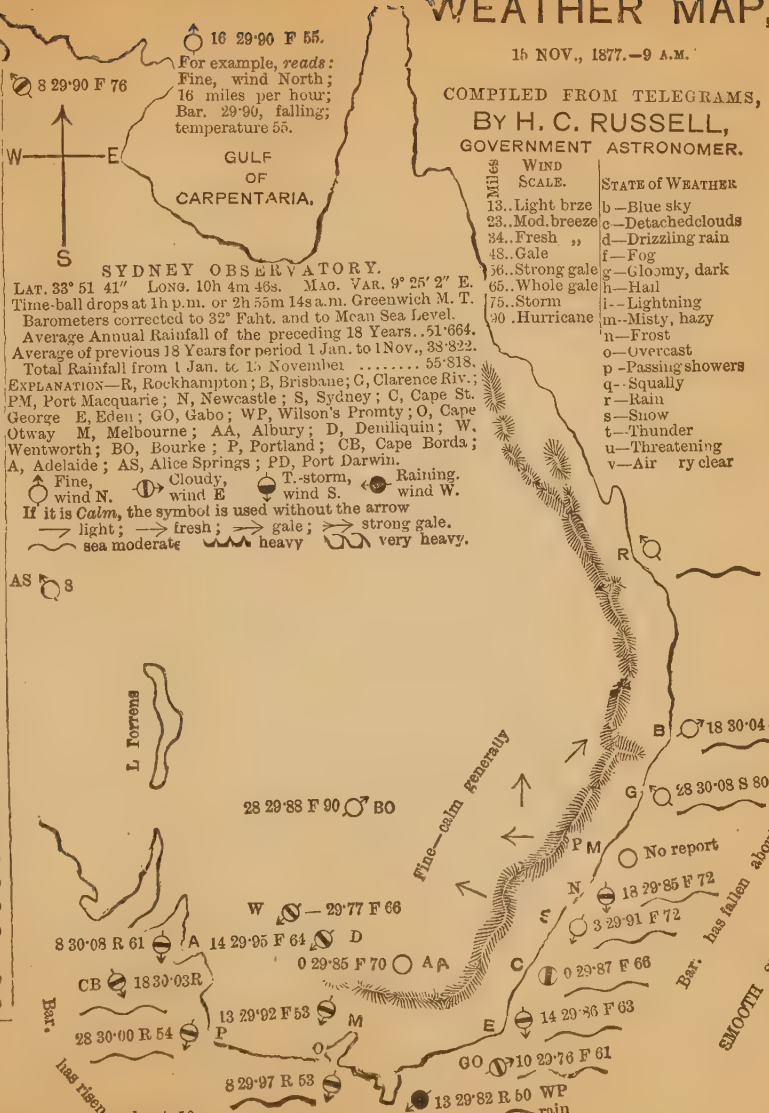
15 NOV., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	b	71	40	0
Grafton ..	b	94	62	0
Inverell ..	..	..	..	..
Bourke ..	b	104	65	0
Narrabri ..	b	102	70	0
Armidale .	c	80	55	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	..	..	..	..
Murr'undi	b	85	50	0
Cassilis ..	b	94	54	0
Mus'brook	b	102	60	0
Dubbo ..	b	90	65	0
Mudgee ..	b	92	54	0
Maitland ..	b	88	65	0
Newcastle	b	88	63	0
Orange ..	b	83	44	0
Bathurst ..	b	92	44	0
MtVictoria	b	83	50	0
Forbes ..	b	83	59	0
SYDNEY ..	b	77	64	..
Wentw'th.	c	97	57	0
Young ..	b	94	51	0
Woll'gong	..	..	..	..
Moss Vale	b	84	59	0
Euston ..	u	100	58	0
Goulburn	b	89	54	0
Wagga ..	b	96	55	0
Cape Geo.	c	76	60	0
Queanb'an	b	91	54	0
Deniliquin	g	96	57	0
Albury ..	b	93	53	0
Bodalla ..	b	92	48	0
Cooma ..	..	..	..	..
Eden	g	74	54	0
Gabo Isld	g	73	66	0



SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664.
Average of previous 18 Years for period 1 Jan. to 1 Nov., 38·822.
Total Rainfall from 1 Jan. to 15 November ..... 55·818.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate heavy very heavy.

WEATHER MAP,

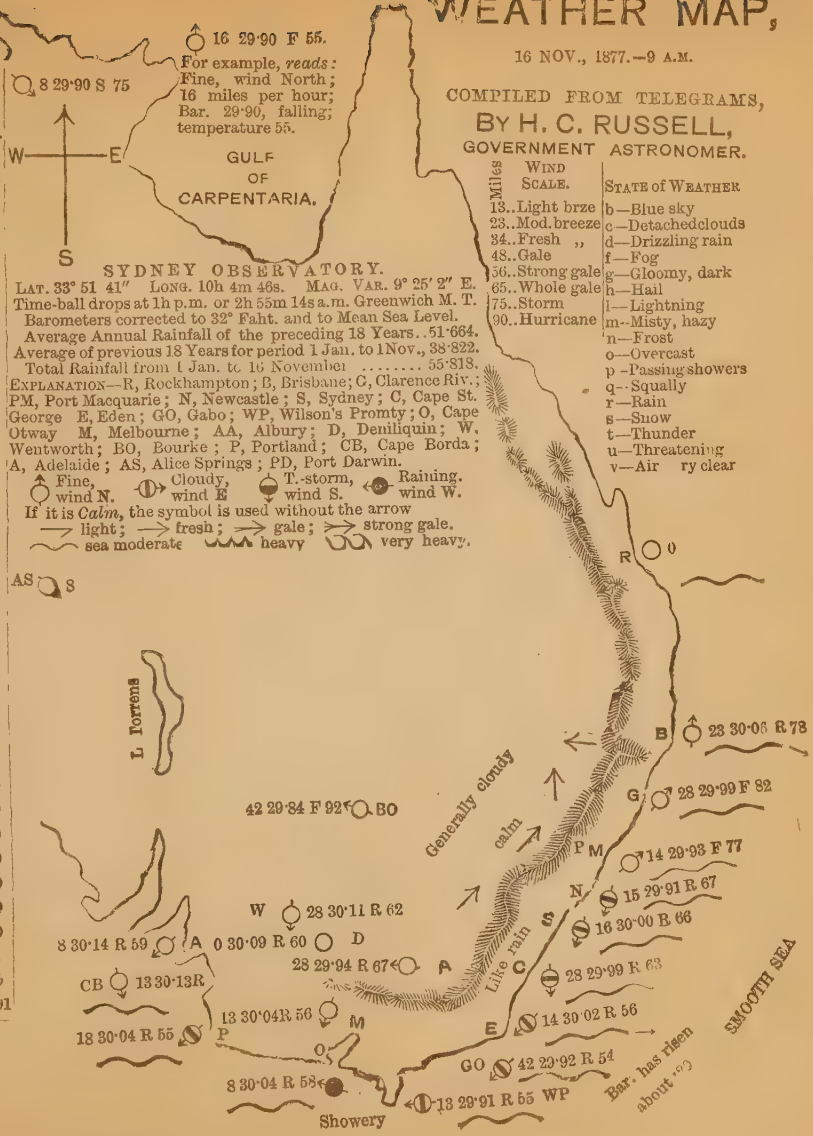
16 NOV., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterfi'ld	b	76	35	0
Grafton ..	b	102	60	0·11
Inverell ..	b	89	57	0
Bourke ..	b	106	70	0
Narrabri..	b	104	76	0
Armidale.	b	75	59	0
Gunnedah	b	101	64	0
Tamworth	..	..	..	..
P. Macqrie	b	81	64	0
Murr'undi	b	93	71	0
Cassilis ..	b	99	64	0
Mus'brook	b	102	65	0
Dubbo ..	c	96	62	0
Mudgee ..	u	97	64	0
Maitland..	u	88	69	0
Newcastle	g	82	61	0
Orange ..	c	86	53	0
Bathurst..	g	96	55	0
MtVictoria	b	87	56	0
Forbes ..	c	86	59	0
SYDNEY ..	g	76	62	0
Wentw'th.	b	81	50	0
Young ..	u	84	61	0
Woll'gong	..	..	..	..
Moss Vale	u	88	55	0
Euston ..	t	86	52	0
Goulburn	u	92	55	0
Wagga ..	g	91	55	0
Cape Geo.	c	76	58	0
Queanb'an	u	92	59	0
Deniliquin	b	85	50	0
Albury ..	b	84	51	0
Bodalla ..	o	83	52	0
Cooma ..	..	..	..	..
Eden	u	69	53	0
Gabo Isld.	o	66	53	0·01



WEATHER MAP,

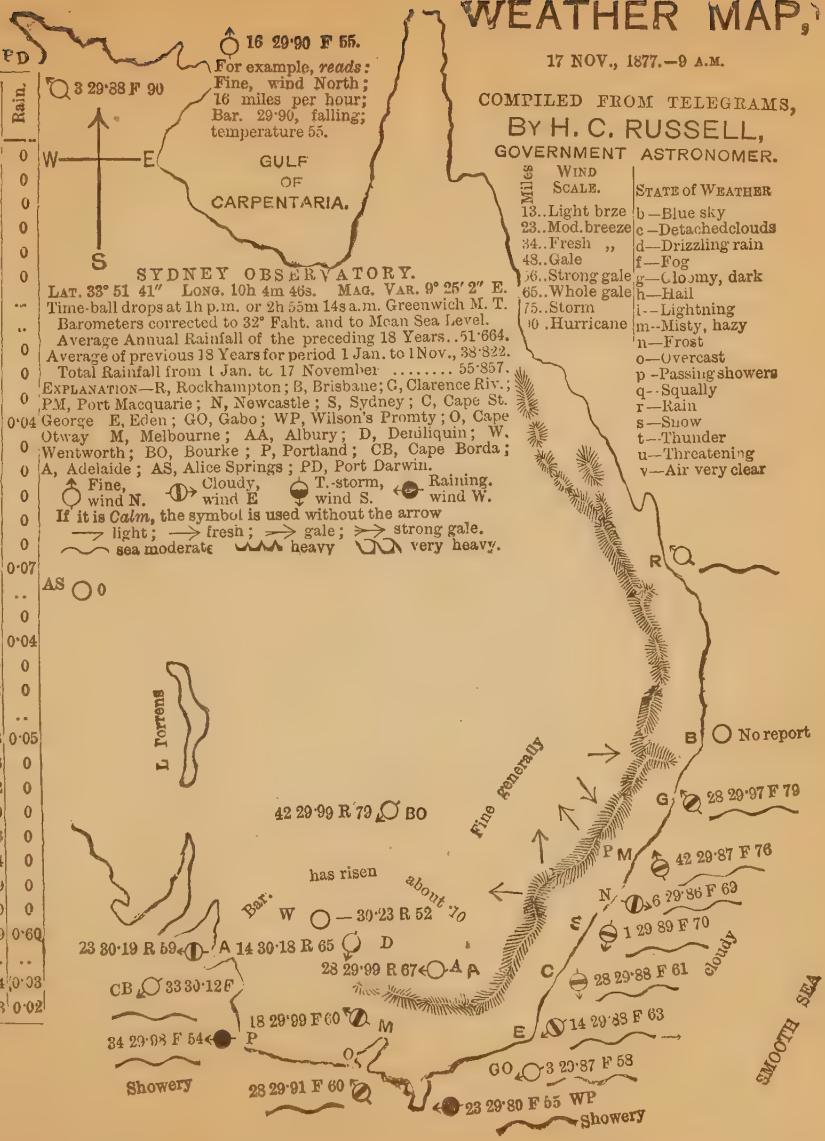
17 NOV., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	u	91	30	0
Grafton ..	b	101	69	0
Inverell ..	b	95	61	0
Bourke ..	b	109	67	0
Narrabri..	b	102	80	0
Armidale.	b	85	66	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	o	82	66	0
Murr'undi	b	94	63	0
Cassilis ..	b	99	63	0
Mus'brook	b	92	65	0·04
Dubbo ..	b	90	62	0
Mudgee ..	b	95	65	0
Maitland..	b	83	69	0
Newcastle	o	80	60	0
Orange ..	b	85	47	0
Bathurst..	b	95	48	0·07
MtVictoria	..	..	..	..
Forbes ..	b	85	62	0
SYDNEY ..	c	72	62	0·04
Wentw'th.	b	76	49	0
Young ..	b	83	52	0
Woll'gong	..	..	..	..
Moss Vale	b	76	56	0·05
Euston ..	c	79	46	0
Goulburn	b	78	52	0
Wagga ..	b	86	50	0
Cape Geo.	c	66	56	0
Queanb'an	b	84	54	0
Deniliquin	b	79	49	0
Albury ..	b	84	40	0
Bodalia ..	b	67	49	0·60
Cooma ..	..	..	..	..
Eden	b	65	54	0·08
Gabo Isld.	b	59	53	0·02



WEATHER MAP,

19 NOV., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	b	81	39	0
Grafton ..	g	101	63	0
Inverell ..	b	94	58	0
Bourke ..	b	91	59	0
Narrabri..	b	99	61	0
Armidale.	u	87	59	0·03
Gunnedah	b	101	66	0
Tamworth	..	..	..	..
P. Macqrie	g	78	45	0·03
Murr'undi	g	96	57	0
Cassilis ..	u	93	65	0
Mus'brook	c	102	64	0
Dubbo ..	b	85	62	0
Mudgee ..	u	91	63	0
Maitland..	g	84	64	0·01
Newcastle	b	80	62	0
Orange ..	..	..	..	..
Bathurst..	..	..	..	..
Mt Victoria	u	79	46	0·12
Forbes ..	..	..	..	..
SYDNEY ..	d	61	59	1·09
Wentw'th.	b	78	53	0
Young ..	..	..	..	..
Woll'gong	..	..	..	..
Moss Vale	d	78	50	0·04
Euston ..	c	82	51	0
Goulburn	u	81	41	0
Wagga ..	..	..	..	..
Cape Geo.	c	69	56	0·07
Queanb'an	c	83	46	0
Deniliquin	b	78	48	0
Albury ..	b	79	43	0
Bodalla ..	c	73	50	0·65
Cooma ..	..	.	..	..
Eden	b	71	52	0
Gabo Isld	c	60	51	0·01

PD

3 29·39 R 91

W — E

S

16 29·90 F 55.
For example, *reads:* Fine, wind North; 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664.
Average of previous 18 Years for period 1 Jan. to 1 Nov., 38·822.
Total Rainfall from 1 Jan. to 19 November ..... 56·945.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E. Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
light; fresh; gale; strong gale.
sea moderate heavy. very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER
b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Cloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

AS 8

R

L Torrens

B 18 30·09 —76

G 28 30·13 R 73

28 30·07 R 70 BO

Generally cloudy

PM 28 30·17 R 69

N 18 30·16 R 72

S 16 30·25 R 61

rain

W 14 30·26 R 68

8 30·18 F 74 A 14 30·26 R 62 D

28 30·20 R 63 AA

C 28 30·26 R 61

CB 23 30·14 R

No report M

No report P

E 14 30·26 R 63

Bar. has risen about ·40

SMOOTH SEA

GO 1 30·18 R 59

No report O

No report WP

WEATHER MAP,

20 NOV., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	b	71	35	0
Grafton ..	u	82	62	0
Inverell ..	..	..	..	..
Bourke ..	..	..	..	..
Narrabri..	b	102	60	0
Armidale.	b	71	57	0
Gunnedah ..	..	..	..	..
Tamworth ..	..	..	..	..
P. Macqrie	g	73	63	0
Murr'undi	b	83	56	0
Cassilis ..	..	..	..	..
Mus'brook	b	78	58	0·31
Dubbo ..	..	..	..	..
Mudgee ..	..	..	..	..
Maitland..	g	78	68	0·61
Newcastle	g	81	57	0·10
Orange ..	..	..	..	..
Bathurst..	..	..	..	..
MtVictoria	r	61	47	0·15
Forbes ..	..	..	..	..
SYDNEY ..	r	64	59	0·35
Wentw'th.	..	..	..	..
Young ..	..	..	..	..
Woll'gong	..	..	..	..
Moss Vale	r	69	50	0·32
Euston ..	..	..	..	..
Goulburn	r	57	50	0
Wagga ..	..	..	..	..
Cape Geo.	b	64	59	0
Queanb'an	d	69	55	0·27
Deniliquin	..	..	..	..
Albury ..	b	89	57	0
Bodalla ..	c	74	55	0
Cooma ..	r	72	62	0
Eden	b	70	58	0
Gabo Isld	b	70	59	0

PD

3 29·89 S 89

W — E

S

16 29·90 F 55.

For example, *reads*: Fine, wind North; 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 18 Years..51·664.

Average of previous 18 Years for period 1 Jan. to 1 Nov., 38·822.

Total Rainfall from 1 Jan. to 20 November ..... 57·297.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate heavy very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Cloudy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

AS 8

L Torrens

No report BO

Generally cloudy—Like rain

R

B 28 30·10 R 78

G 28 30·13 S 70

P M 14 30·13 F 69

N 9 30·03 F 66

S 9 30·09 F 62

rain

C 28 30·12 F 64

E 28 30·00 F 70

GO 6 29·90 F 65

WP 8 29·75 F 59

SMOOTH SEA

W 42 29·98 F 80

D 0 30·06 F 71

28 30·05 F 69 A A

3 29·90 F 79 A

CB 13 29·88 F

18 29·88 F 74 M

28 29·78 F 67 P

O

3 29·83 F 73

Bar. has fallen about ·50

WEATHER MAP,

21 NOV., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	c	76	35	0·50
Grafton ..	b	88	61	0·35
Inverell ..	..	..	..	..
Bourke ..	c	99	63	0
Narrabri..	b	92	61	0
Armidale.	b	74	54	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	b	76	41	0·01
Murr'undi	c	79	57	0·03
Cassilis ..	b	82	54	0·10
Mus'brook	c	82	58	0·01
Dubbo ..	c	82	62	0
Mudgee ..	c	85	54	0·11
Maitland..	c	72	60	0
Newcastle	c	81	59	0·10
Orange ...	c	76	43	0
Bathurst..	c	84	48	0·10
MtVictoria	c	76	48	0·15
Forbes ...	o	81	66	0
SYDNEY ...	g	70	61	0·31
Wentw'th.	..	..	..	..
Young ...	c	83	54	0
Woll'gong	..	..	..	..
Moss Vale	c	73	53	0·19
Euston ...	..	..	..	..
Goulburn	c	78	51	0·41
Wagga ...	..	..	..	..
Cape Geo.	c	71	61	0
Queanb'an	c	78	57	0·10
Deniliquin	..	..	..	..
Albury ...	r	90	57	0·40
Bodalla ...	d	83	50	0
Cooma ...	d	77	51	0·02
Eden ...	u	72	58	0
Gabo Isld	g	70	59	0

PD No report

W E S

16 29·90 F 55.
For example, *reads*: Fine, wind North; 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664.
Average of previous 18 Years for period 1 Jan. to 1 Nov., 38·822.
Total Rainfall from 1 Jan. to 21 November ..... 57·606.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate heavy very heavy.

Miles	Wind Scale.	State of Weather
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detachedclouds
34..	Fresh ,,	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	l—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

AS No report

L Torrens

28 29·79—82 BO

Generally cloudy—Like rain

R

B 18 29·99 F 80

G 28 29·93 F 80

PM 14 29·84 F 75

N 15 29·76 F 76

S 2 29·78 F 66

C 28 29·71 F 70

E 28 29·64 F 64

GO 5 29·62 F 60

28 29·56 F 56 WP

Bar. has fallen about ·40

SMOOTH SEA

W No report

No report A

No report D

14 29·83 F 66 AA

CB No rept.

13 29·85 F 60 M

28 29·81 R 56 P

O

23 29·80 F 55

WEATHER MAP,

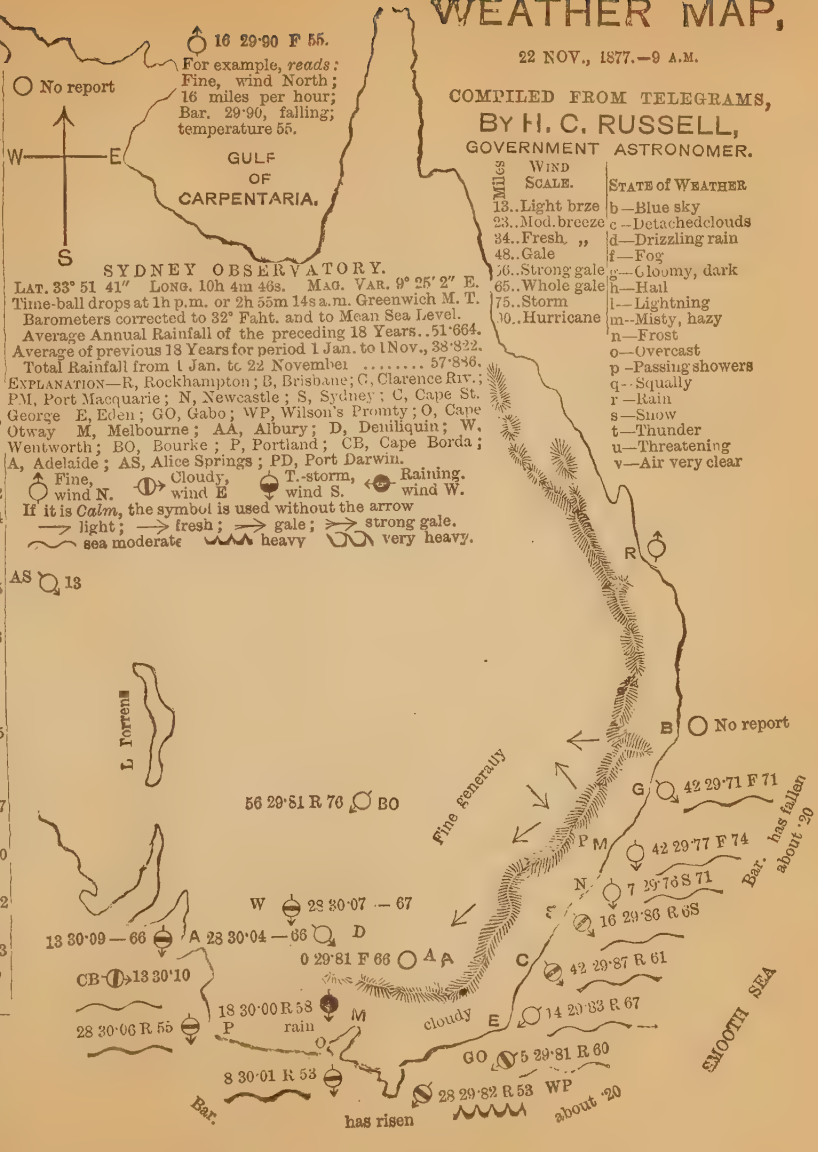
22 NOV., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	b	81	40	0
Grafton ..	b	100	62	0
Inverell ..	b	93	53	0
Bourke ..	b	102	69	0
Narrabri..	b	98	63	0
Armidale.	b	84	58	0
Gunnedah	b	96	66	0
Tamworth	..	..	..	..
P. Macqrie	b	79	43	0
Murr'undi	c	83	57	0
Cassilis ..	b	91	57	0
Mus'brook	b	100	59	0·05
Dubbo ..	b	92	51	0
Mudgee ..	b	90	56	0
Maitland..	b	89	62	0·12
Newcastle	b	88	51	0·04
Orange ..	b	81	38	0
Bathurst..	b	89	39	0
MtVictoria	g	80	45	0·05
Forbes ..	b	83	54	0
SYDNEY ..	c	79	60	0·28
Wentw'th.	c	81	46	0
Young ..	b	98	48	0
Woll'gong	..	..	..	..
Moss Vale	u	78	53	0·25
Euston ..	c	81	55	0
Goulburn	o	76	45	0
Wagga ..	b	76	50	0·37
Cape Geo.	c	71	60	0
Queanb'an	c	72	42	0·40
Deniliquin	b	83	52	0
Albury ..	b	75	44	0·22
Bodalla ..	c	77	52	0
Cooma ..	c	75	48	0·03
Eden	b	70	55	0
Gabo Isld	c	62	56	0



WEATHER MAP,

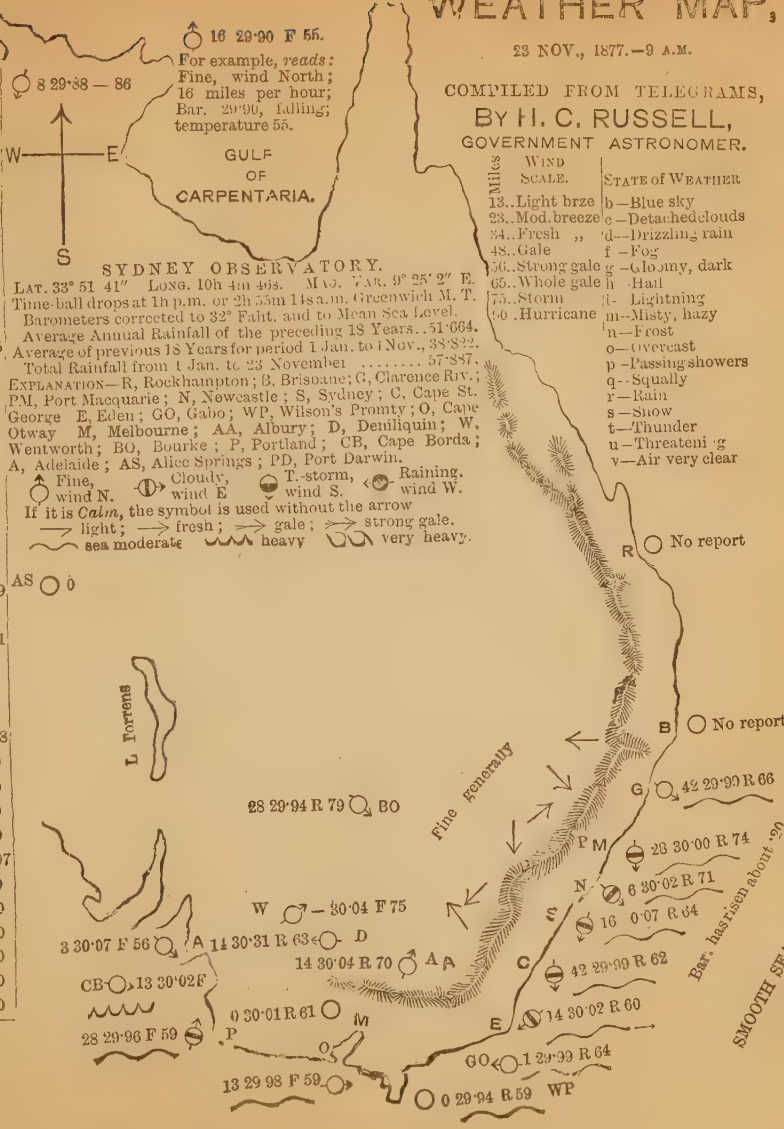
23 NOV., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wthr.	Max.	Min.	Rain
Tenterfi'ld	b	71	35	0
Grafton ..	c	95	65	0·63
Inverell ..	b	92	56	0
Bourke ..	b	91	62	0
Narrabri..	b	88	66	0
Armidale.	u	84	55	0·10
Gunnedah	b	101	61	0
Tamworth	..	..	..	..
P Macqrie	c	77	60	0·65
Murr'undi	c	81	56	0
Cassilis ..	c	83	60	0
Mus'brook	u	85	55	0
Dubbo ..	b	91	0	0
Mudgee ..	b	88	55	0
Maitland..	g	77	63	0
Newcastle	c	85	61	0
Orange ..	b	76	45	0
Bathurst..	b	86	50	0
MtVictoria	o	70	45	0·09
Forbes ..	b	79	59	0
SYDNEY ..	g	69	60	0·01
Wentw'th.	b	83	56	0
Young ..	b	84	51	0
Woll'gong	c	64	55	0
Moss Vale	c	68	59	0·03
Euston ..	b	86	54	0
Goulburn	g	71	49	0
Wagga ..	b	81	56	0
Cape Geo.	c	69	60	0
Queanb'an	c	75	56	0·07
Deniliquin	b	81	47	0
Albury ..	b	84	46	0
Bodalla ..	g	78	53	0
Cooma ..	c	77	55	0
Eden	c	73	52	0
Gabo Isld	b	64	57	0



WEATHER MAP,

24 NOV., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	b	76	40	0
Grafton ..	b	84	61	0
Inverell ..	b	92	53	0
Bourke ..	b	97	63	0
Narrabri ..	b	96	62	0
Armidale.	b	78	58	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P Macqrie	b	75	57	0·06
Murr'undi	b	81	51	0
Cassilis ..	b	86	53	0
Mus'brook	b	85	54	0
Dubbo ..	c	91	60	0
Mudgee ..	b	89	58	0
Maitland..	b	78	59	0
Newcastle	b	73	60	0
Orange ..	b	77	46	0
Bathurst..	b	88	48	0
Mt Victoria	b	73	45	0
Forbes ..	b	83	50	0
SYDNEY ..	c	74	58	0
Wentw'th.	b	95	69	0
Young ..	c	84	53	0
Woll'gong	b	70	67	0
Moss Vale	c	72	52	0
Euston ..	b	100	66	0
Goulburn	c	77	47	0
Wagga ..	b	86	60	0
Cape Geo.	b	74	56	0
Queanb'an	b	79	54	0
Deniliquin	c	91	65	0
Albury ..	b	86	51	0
Bodalla ..	b	82	46	0
Cooma ..	c	74	49	0
Eden	o	70	56	0
Gabo Isld	o	70	60	0

16 29·90 F 55.
For example, *reads:* Fine, wind North; 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E
S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.
LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664.
Average of previous 18 Years for period 1 Jan. to 1 Nov., 38·822.
Total Rainfall from 1 Jan. to 24 November ..... 57·887.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate heavy very heavy.

WIND SCALE.

Miles	
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

PD

AS

L Torrens

14 29·90 F 90 BO

Fine generally

R

B

G 14 30·08 R 80

PM 1 29·94 F 71

N 6 29·97 F 74

S 9 29·98 F 73

W 28 30·08 R 73

A 14 30·05 F 78 D

0 29·94 F 66 AA

C 14 29·86 F 69

CB

18 29·93 F 63 M

34 29·98 F 58 P

O

cloudy

E 14 29·84 F 63

GO 2 29·75 F 64

23 29·95 F 60

28 29·70 F 63 WP

Bar. has fallen about ·20

SMOOTH SEA.

WEATHER MAP,

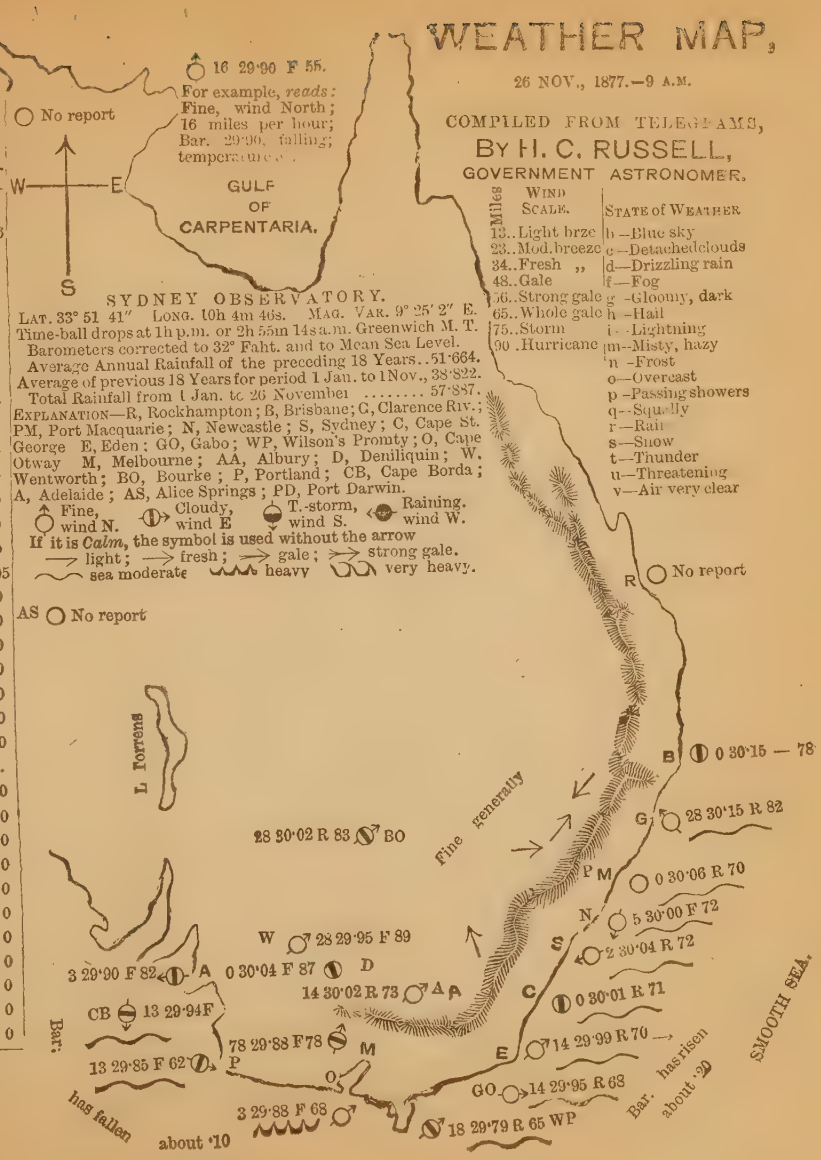
26 NOV., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain
Tenterfi'ld	b	81	44	0·71
Grafton ..	b	97	62	0
Inverell ..	b	93	53	0·06
Bourke ..	c	107	77	0
Narrabri ..	b	98	63	0
Armidale .	b	82	38	0
Gunnedah	b	100	66	0
Tamworth	..	..	..	..
P Macqrie	b	81	62	0
Murr'undi	b	88	60	0
Cassilis ..	b	97	62	0
Mus'brook	b	99	63	0
Dubbo ..	b	92	61	0
Mudgee ..	b	93	61	0
Maitland..	b	89	61	0
Newcastle	b	78	66	0
Orange ..	b	85	49	0·05
Bathurst..	b	96	52	0
MtVictoria	b	87	57	0
Forbes ..	b	89	67	0
SYDNEY ..	b	73	65	0
Wentw'th.	b	96	63	0
Young ..	b	94	55	0
Woll'gong	b	74	50	0
Moss Vale	..	..	..	..
Euston ..	c	100	60	0
Goulburn	b	90	55	0
Wagga ..	b	95	53	0
Cape Geo.	c	77	63	0
Queanb'an	b	92	57	0
Deniliquin	c	96	51	0
Albury ..	b	96	45	0
Bodalla ..	b	83	46	0
Cooma ..	c	89	41	0
Eden	b	73	54	0
Gabo Isld.	b	74	56	0



WEATHER MAP,

27 NOV., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	b	80	45	0
Grafton ..	b	95	67	0
Inverell ..	b	94	63	0·10
Bourke ..	..	..	..	..
Narrabri..	b	106	73	0
Armidale.	b	82	64	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P Macqrie	b	80	67	0
Murr'undi	b	97	66	0·13
Cassilis ..	b	103	64	0
Mus'brook	b	106	65	0·15
Dubbo ..	b	92	68	0·14
Mudgee ..	b	98	64	0·08
Maitland..	b	90	70	0
Newcastle	b	84	66	0
Orange ...	b	90	56	0·06
Bathurst..	b	97	54	0
MtVictoria	b	91	58	0
Forbes ...	b	90	56	0
SYDNEY ...	b	80	67	0·01
Wentw'th.	c	105	55	0
Young ...	..	..	..	..
Woll'gong	b	78	64	0
Moss Vale	b	87	60	0·45
Euston ...	c	108	60	0
Goulburn	b	93	50	0
Wagga ...	b	96	67	0
Cape Geo.	c	84	66	0·36
Queanb'an	b	90	59	0
Deniliquin	g	70	63	0
Albury ..	b	100	58	0
Bodalla ..	c	84	51	0·55
Cooma ...	..	..	..	..
Eden	c	75	60	0
Gabo Isld	b	71	60	0

PD

3 29·87 -- 90

16 29·90 F 55.

For example, *reads*: Fine, wind North; 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 18 Years..51·664.

Average of previous 18 Years for period 1 Jan. to 1 Nov., 38·822.

Total Rainfall from 1 Jan. to 27 November ..... 57·879.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate heavy very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

AS 13

L Torrens

No report BO

Fine generally

R

B 13 30·09 F 77

G 28 30·02 F 82

PM 42 29·97 F 75

N 5 29·95 R 74

S 2 29·86 F 80

C 0 29·84 F 76

W 14 30·03 F 72

8 30·06 R 66

A 14 30·01 F 68

D

28 29·92 F 72

A

CB 13 30·03R

18 29·97 R 62

M

28 29·97 R 59

P

O

E 28 29·82 F 70

GO 5 29·80 F 61

18 29·95 R 60

23 29·79 S 55 WP

Bar. has risen about ·10

Bar. has fallen about ·20

SMOOTH SEA.

WEATHER MAP,

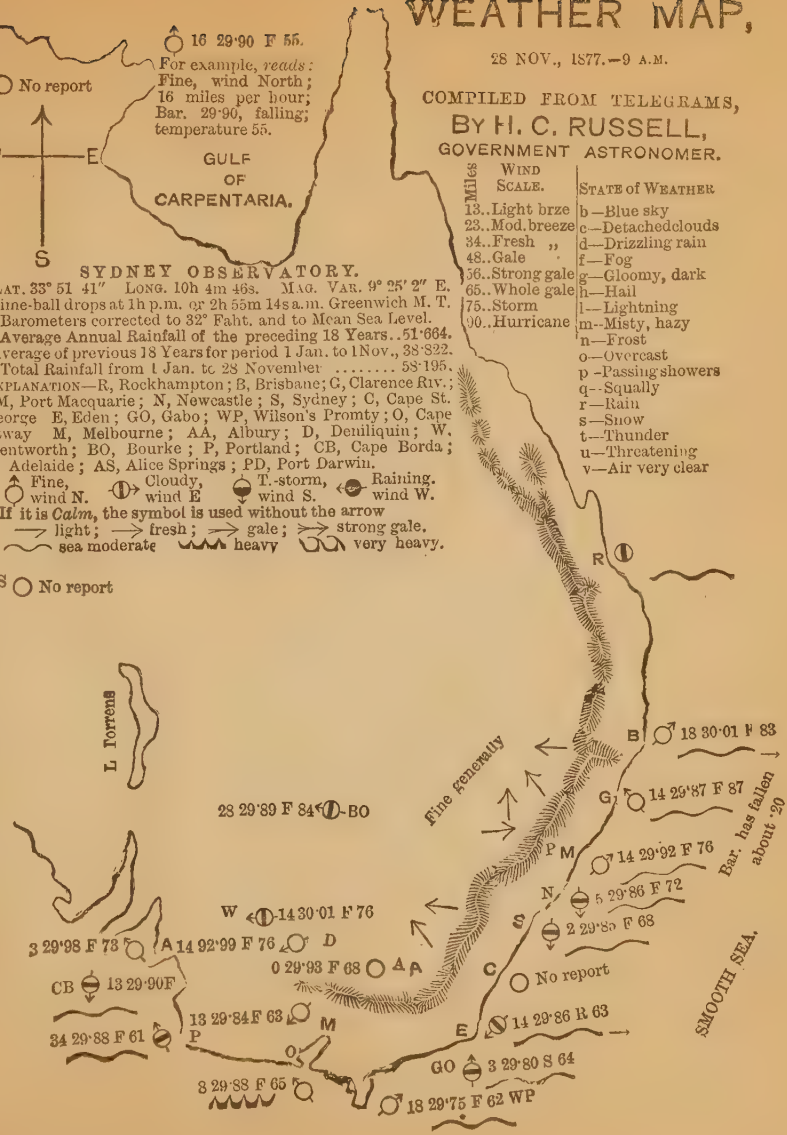
28 NOV., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain
Tenterfield	b	82	40	0
Grafton ..	b	98	69	0
Inverell ..	b	91	59	0·21
Bourke ..	c	113	77	0
Narrabri..	b	101	68	0·12
Armidale.	b	87	63	0·12
Gunnedah	b	102	67	0·38
Tamworth	..	..	..	..
P Macqrie	b	79	68	0·06
Murr'undi	b	95	64	0
Cassilis ..	b	103	65	0·21
Mus'brook	b	104	61	0·56
Dubbo ..	b	91	68	0·12
Mudgee ..	b	97	68	0·11
Maitland..	c	99	71	0·40
Newcastle	g	87	65	0·32
Orange ...	c	88	60	0·02
Bathurst..	b	98	65	0
MtVictoria	c	95	57	0·20
Forbes ...	..	..	..	..
SYDNEY ...	g	85	61	0·30
Wentw'th.	c	88	57	0
Young ..	b	96	50	0·10
Woll'gong	c	83	60	0·90
Moss Vale	c	89	55	0·37
Euston ...	b	91	60	0
Goulburn	b	94	54	0
Wagga ...	b	97	60	0
Cape Geo.	..	..	..	..
Queanb'an	o	96	60	0·02
Deniliquin	b	86	55	0
Albury ...	b	94	45	0
Bodalla ...	p	75	55	0
Cooma ..	b	90	50	0
Eden	u	74	51	0
Gabo, Isld.	c	76	68	0



WEATHER MAP,

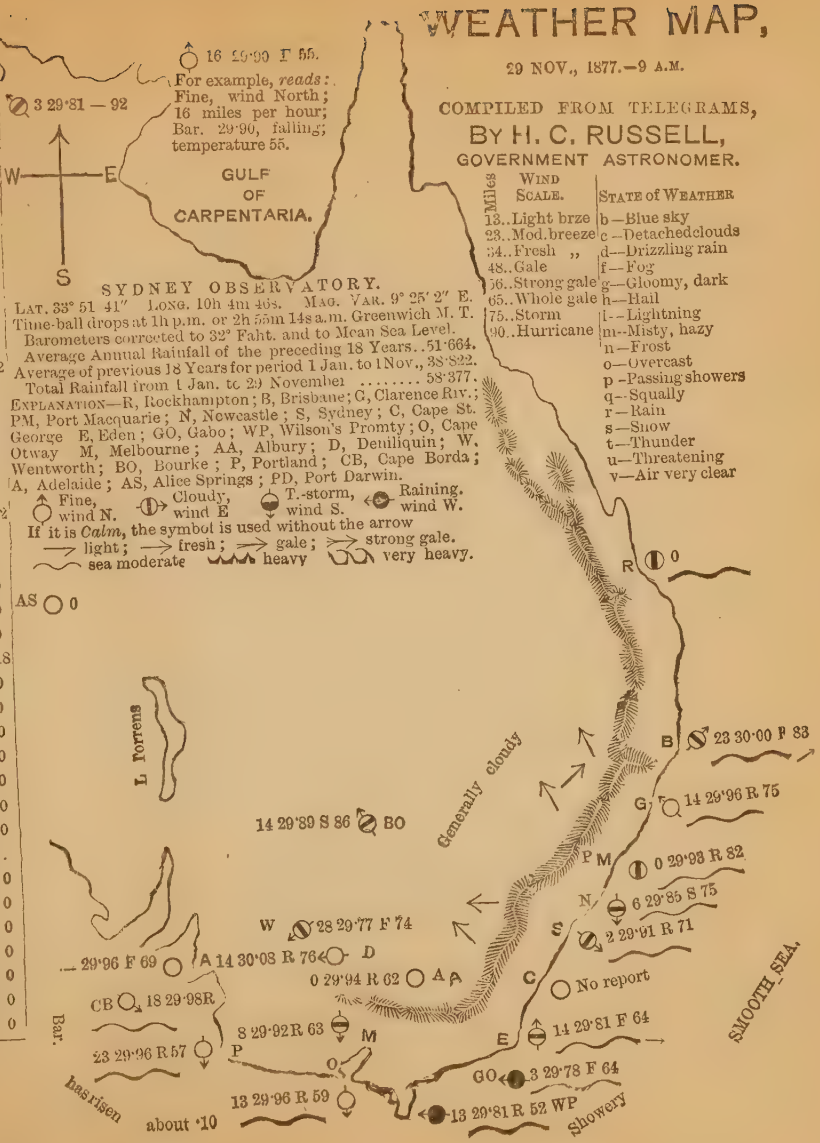
29 NOV., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther	Max.	Min.	Rain
Tenterfi'ld	c	81	40	0
Grafton ..	u	98	55	0
Inverell ..	c	93	64	0·02
Bourke ..	c	100	76	0
Narrabri..	c	99	74	0
Armidale.	c	87	66	0
Gunnedah	c	97	68	0
Tamworth ..	..	..	..	.
P Macqrie	c	82	70	0·02
Murr'undi	c	93	61	0
Cassilis ..	g	93	64	0
Mus'brook	b	100	66	0
Dubbo ..	u	89	68	0
Mudgee ..	c	95	63	0
Maitland..	c	91	68	0·02
Newcastle	c	80	67	0
Orange ..	c	80	50	0
Bathurst..	g	91	54	0
MtVictoria	b	84	59	0
Forbes ..	g	90	64	0
SYDNEY ..	g	75	66	0·18
Wentw'th.	c	95	71	0
Young ..	c	97	56	0
Woll'gong	c	75	61	0
Moss Vale	c	83	58	0
Euston ..	u	98	69	0
Goulburn	c	89	53	0
Wagga ..	u	94	60	0
Cape Geo.	..	..	..	..
Queanb'an	b	89	57	0
Deniliquin	o	93	67	0
Albury ..	u	88	53	0
Bodalla ..	g	89	52	0
Cooma ..	o	89	50	0
Eden	u	74	57	0
Gabo Isld	p	70	57	0



WEATHER MAP,

30 NOV., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather	Max.	Min.	Rain
Tennant'k	p	81 29	0	1.5
Grafton ..	o	102 72		0
Inverell ..	b	89 62	0	04
Bourke ..	b	105 71		0
Narrabri..	c	95 74		0
Armidale.	b	84 63	0	15
Gunnedah	b	102 74		0
Tamworth ..	..	..	..	.
P Macquarie	s	85 [illegible]		0
Murr'undi	b	94 65		0
Cassilis ..	n	97 70		0
Mus'brook	b	109 70		0
Dubbo ..	b	93 68		0
Mudgee ..	b	95 63		0
Maitland..	b	93 74		0
Newcastle	c	85 [illegible]		0
Orange ..	b	81 51		0
Bathurst..	b	91 57		0·02
MtVictoria	b	90 54		0
Forbes ..	..	..	..	..
SYDNEY ..	c	78 67		0
Wentw'th.	b	94 61		0
Young ..	b	87 56		0
Woll'gong	g	77 63		0
Moss Vale	b	85 59		0
Euston ..	b	99 63		0
Goulburn	b	88 55		0
Wagga ..	b	87 60		0
Cape Geo.	..	..	..	..
Queanb'an	b	84 57		0
Deniliquin	b	94 59		0
Albury ..	b	86 54		0
Bodalla ..	g	75 58		0
Cooma ..	b	82 44		0
Eden	u	70 58		0
Gabo Isld	g	70 57		0

PD 0 29·80 F 90

16 29·9[illegible] F 55

For example, *reads:* Fine, wind North; 16 miles per hour; Bar. 29·9[illegible] inches; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 5m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 16 Years..51·664.

Total Rainfall from 1 Jan. to 30 November .....58·199.

Average of previous 18 Years for period 1 Jan. to 1 Nov., 38·822.

EXPLANATION.—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate heavy very heavy.

Miles.	Wind Scale.	Stated Weather
2..	Light breze	b – Blue sky
23..	Mod breeze	c – Dark clouds
34..	Fresh ,,	d – Drizzling rain
48..	Gale	f – Fog
56..	Strong gale	g – Gloomy, dark
65..	Whole gale	h – Hail
75..	Storm	i – Lightning
90..	Hurricane	m – Misty, hazy
		n – Frost
		o – Overcast
		p – Passing showers
		q – Squally
		r – Rain
		s – Snow
		t – Thunder
		u – Threatening
		v – Air very clear

R No report

AS 8

L Torrens

FINE GENERALLY

Stowery

B 18 30·04 R 79

G 28 29·99 R 72

42 29·98 R 88 BO

PM 14 29·99 R 76

N 7 30·00 R 74

S 12 30·05 R 71

W 14 29·93 R 88

8 29·93 F 77 A

0 30·05 F 77 D

0 30·01 R 77 AA

C 42 29·08 — 72

CB 13 29·93 F

3 29·96 R 66 M

E 30·04 R 63

13 29·94 F 60 P

O

GO 14 29·94 R 64

13 29·99 R 63

13 29·91 R 59 WP

Bar. risen about ·20

SMOOTH SEA.

WEATHER MAP,

1 DEC., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Tenterfi'ld.	b	84	42	0
Grafton ..	b	97	64	0
Inverell ..	c	88	59	0
Bourke ..	b	108	77	0
Narrabri..	c	109	74	0
Armidale .	c	85	62	0
Gunnedah.	b	102	69	0
Tamworth ..	..	..	..	..
P Macqrie	o	82	69	0
Murr'undi	c	97	65	0
Cassilis ..	b	97	60	0
Mus'brook	b	102	68	0·03
Dubbo ..	b	93	63	0
Mudgee .	b	96	70	0
Maitland..	t	89	70	0·03
Newcastle	c	81	69	0·14
Orange ..	b	85	54	0·05
Bathurst..	b	90	61	0
MtVictoria	b	89	57	0
Forbes ..	b	85	68	0·35
SYDNEY ..	u	76	67	0·09
Wentw'th.	o	99	65	0·10
Young ..	b	96	62	1·01
Woll'gong	c	76	64	0
Moss Vale	b	83	60	0·48
Euston ..	o	101	58	0
Goulburn	b	91	59	0
Wagga ..	b	99	65	0
Cape Geo.	c	80	65	0·15
Queanb'an	b	90	61	0·11
Deniliquin	b	99	64	0
Albury ..	b	96	58	0·23
Bodalla ..	..	..	..	..
Cooma ..	b	54	52	0
Eden	b	79	63	0
Gabo Isld	b	77	63	0

Miles Wind Scale.

13..Light brze
23..Mod. breeze
34..Fresh „
48..Gale
56..Strong gale
65..Whole gale
75..Storm
90..Hurricane

State of Weather

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Thunder
v—Air very clear

16 29·90 F 55.

For example, *reads*: Fine, wind North; 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

W E S

PD

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 18 Years..51·664.

Average of previous 18 Years for period 1 Jan. to 1 Dec, 41·357.

Total Rainfall from 1 Jan. to 1 December ..... 58·288.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate heavy very heavy.

R 0

B No report

G 0 29·98 S 85

PM 0 29·99 S 75

N 7 29·92 F 72

S 16 29·94 F 74

C 56 29·98 F 72

E 14 29·81 F 68

GO 3 29·72 F 63

foggy 13 29·57 F 68 WP

SMOOTH SEA

L Torrens

14 29·85 F 95 BO

FINE GENERALLY

W 28 29·86 F 76

A 14 29·88 F 83 D Showery

28 29·93 F 78 A A

CB

23 29·63 F 82 M

P Hot Wind

40 29·54 F 71

18 29·54 F 85

Bar. has fallen about ·50

AS

WEATHER MAP,

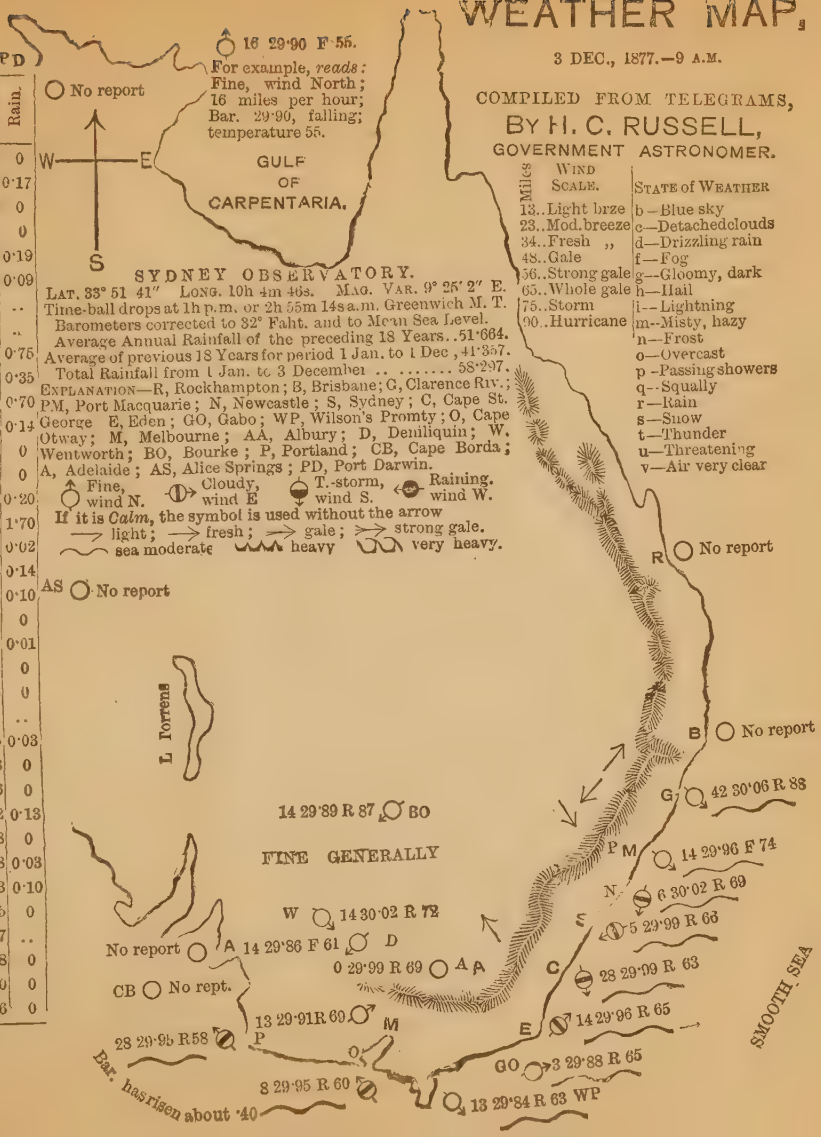
3 DEC., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Teuterfi'ld	b	99	46	0
Grafton ..	b	105	67	0·17
Inverell ..	b	93	62	0
Bourke ..	b	100	74	0
Narrabri ..	b	98	69	0·19
Armidale .	b	88	63	0·09
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P Macqrie	b	84	48	0·75
Murr'undi	b	93	64	0·35
Cassilis ..	g	104	64	0·70
Mus'brook	c	106	65	0·14
Dubbo ..	b	104	85	0
Mudgee ..	u	93	68	0
Maitland ..	u	94	60	0·20
Newcastle	g	88	66	1·70
Orange ..	b	84	57	0·02
Bathurst ..	c	93	58	0·14
MtVictoria	g	90	54	0·10
Forbes ..	b	88	63	0
SYDNEY ..	g	81	63	0·01
Wentw'th.	b	83	53	0
Young ..	b	93	56	0
Woll'gong	..	..	..	..
Moss Vale	g	79	55	0·03
Euston ..	b	86	53	0
Goulburn	u	88	56	0
Wagga ..	b	82	52	0·13
Cape Geo.	c	73	58	0
Queanb'an	c	94	58	0·03
Deniliquin	b	96	53	0·10
Albury ..	b	98	45	0
Bodalla ..	b	71	67	..
Cooma ..	c	85	48	0
Eden	u	70	50	0
Gabo Isld	b	66	56	0



WEATHER MAP,

4 DEC., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	b	91	43	0
Grafton ..	b	100	68	0·96
Inverell ..	b	95	40	0
Bourke ..	u	101	76	0
Narrabri..	b	100	73	0
Armidale.	b	85	60	0·03
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P Macqrie	b	79	69	0
Murr'undi	c	90	61	1·00
Cassilis ..	b	95	60	0
Mus'brook	b	95	79	0
Dubbo ..	c	94	67	0
Mudgee ..	u	95	33	0
Maitland..	f	85	70	0
Newcastle	b	84	67	0
Orange ..	p	85	48	0
Bathurst..	g	95	50	0
MtVictoria	b	84	59	0
Forbes ..	b	87	62	0
SYDNEY ..	c	73	64	0
Wentw'th.	r	92	57	0·13
Young ..	g	86	57	0
Woll'gong	b	76	60	0
Moss Vale	b	76	54	0
Euston ..	r	93	61	0
Goulburn	b	90	48	0
Wagga ..	..	..	..	..
Cape Geo.	c	71	62	0
Queanb'an	b	89	53	0
Deniliquin	u	95	62	0
Albury ..	u	89	51	0
Bodalla ..	d	74	51	0
Cooma ..	c	83	44	0
Eden	c	71	57	0·01
Gabo Isld	g	69	59	0

PD

— 29·86 -- 89

W — E

S

16 29·90 F 55.

For example, *reads:* Fine, wind North; 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664.
Average of previous 18 Years for period 1 Jan. to 1 Dec., 41·357.
Total Rainfall from 1 Jan. to 4 December .. .. 58·300.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. — Cloudy, wind E — T.-storm, wind S. — Raining. wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate — heavy — very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detached clouds
34..	Fresh ,,	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	i—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS 3

L Torrens

B No report

G 14 30·07 R 84

0 29·90 R 80 BO

FINE GENERALLY

rain

W 14 30·06 R 57

Showery foggy

PM 0 29·86 F 77

N 5 29·73 F 80

29·80 F 73

about 20

3 30·01 — 68 A 28 29·95 F 64 D

14 29·87 F 66 A A

CB No rept.

C 14 29·78 F 71

rain

13 29·79 F 68 M

E 14 29·75 F 68

34 29·77 F 55 P

GO ? 29·68 F 66

SMOOTH SEA

Showery squally

40 29·75 F 55

23 29·65 F 60 WP

generally

Bar.

has fallen

WEATHER MAP,

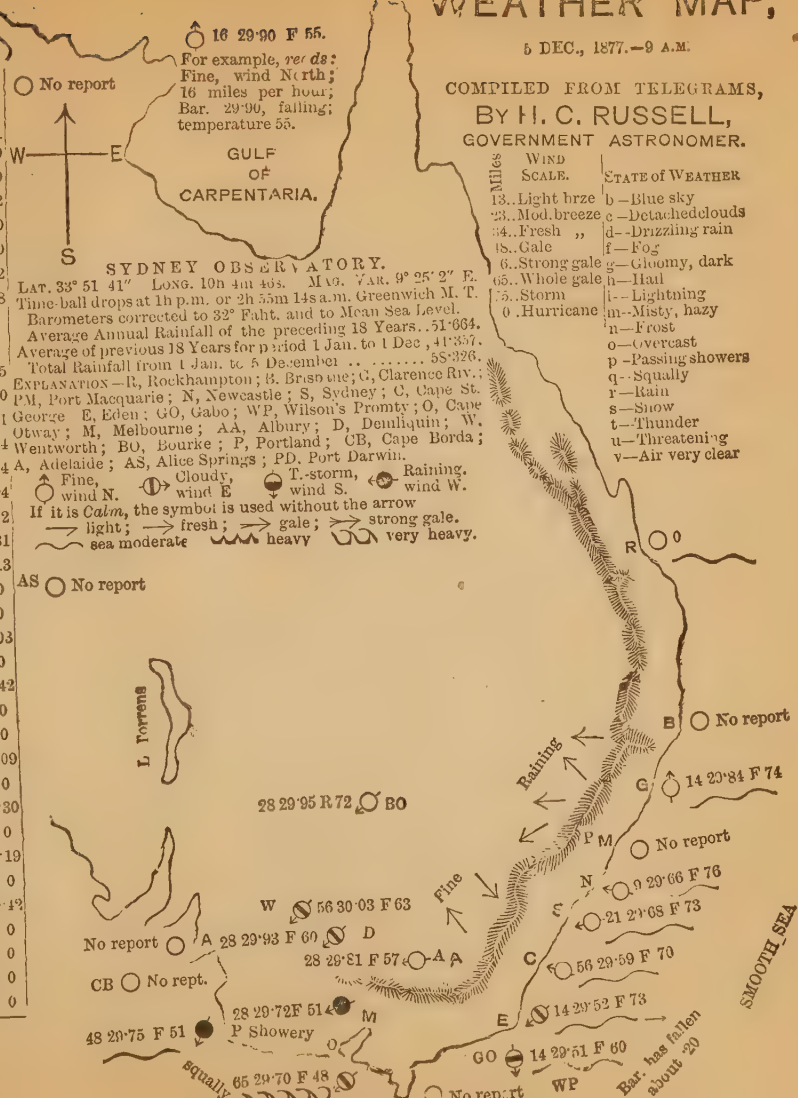
5 DEC., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Tenterf'ld	u	94	49	0·29
Grafton ..	g	104	72	0·50
Inverell ..	r	97	63	0·22
Bourke ..	b	90	63	0·10
Narrabri ..	r	102	71	0·20
Armidale .	r	90	60	0·62
Gunnedah	c	99	66	0·28
Tamworth	..	..	..	..
P Macqrie	..	..	..	..
Murr'undi	c	87	60	0·45
Cassilis ..	b	92	64	0·20
Mus'brook	b	104	95	0·51
Dubbo ..	b	89	63	0·04
Mudgee ..	c	93	59	0·04
Maitland ..	b	91	69	0·04
Newcastle	b	84	65	0·42
Orange ..	c	72	44	0·31
Bathurst ..	c	81	48	0·13
Mt Victoria	b	82	49	0
Forbes ..	b	75	54	0
SYDNEY ..	b	82	66	0·03
Wentw'th.	c	81	53	0
Young ..	c	76	52	0·42
Woll'gong	b	79	60	0
Moss Vale	b	79	51	0
Euston ..	b	74	50	0·09
Goulburn	b	81	50	0
Wagga ..	g	78	55	0·30
Cape Geo.	b	81	60	0
Queanb'an	c	80	57	0·19
Deniliquin	g	75	50	0
Albury ..	u	68	51	0·42
Bodalla ..	b	67	45	0
Cooma ..	c	75	48	0
Eden	c	75	53	0
Gabo Isld	g	69	54	0



Miles	Wind Scale.	State of Weather
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detachedclouds
34..	Fresh ,,	d—Drizzling rain
48..	Gale	f—Fog
6..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	i—Lightning
0 .	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

WEATHER MAP,

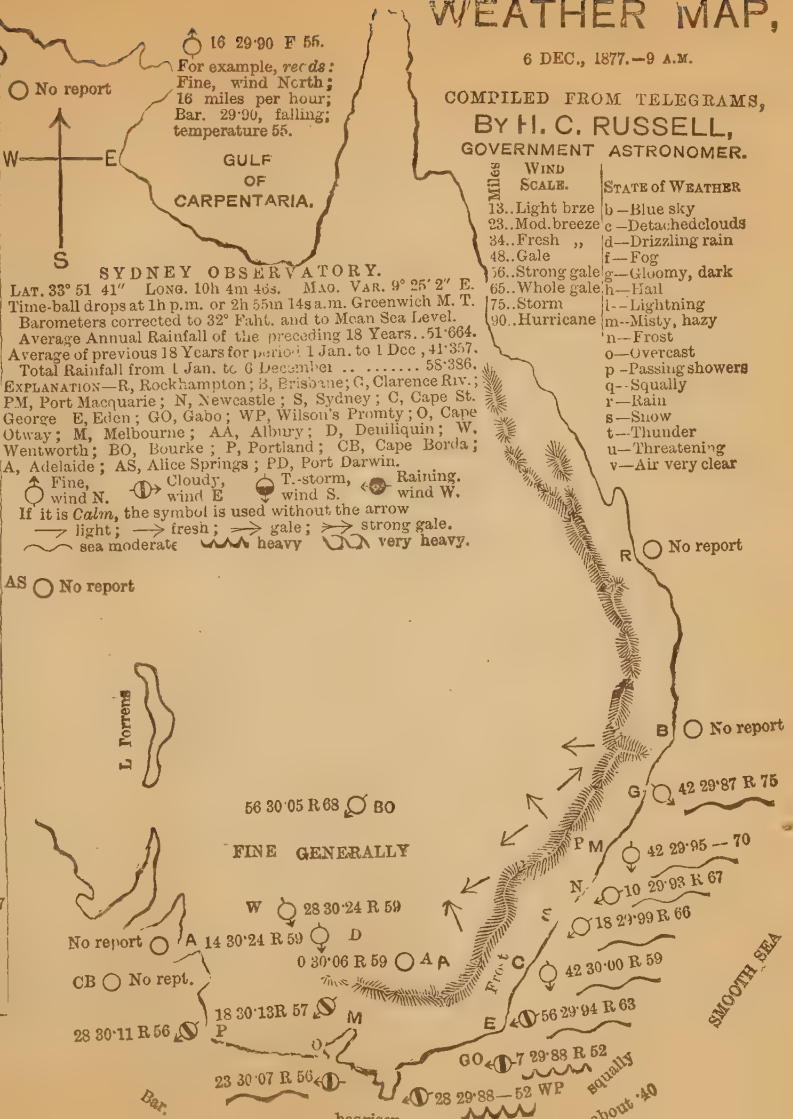
6 DEC., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	b	72	38	0
Grafton ..	b	91	63	0
Inverell ..	b	82	47	0
Bourke ..	b	88	62	0
Narrabri..	b	95	70	0
Armidale.	b	75	54	0·02
Gunnedah	b	88	59	0
Tamworth	..	..	..	..
P Macqrie	b	87	65	0
Murr'undi	b	88	53	0
Cassilis ..	b	92	52	0
Mus'brook	b	93	57	0
Dubbo ..	b	81	63	0
Mudgee ..	b	80	56	0
Maitland..	b	81	63	0
Newcastle	b	82	61	0
Orange ..	b	80	44	0
Bathurst..	b	85	43	0
MtVictoria	b	69	42	0
Forbes ..	b	71	47	0
SYDNEY ..	b	82	58	0·06
Wentw'th.	b	74	47	0
Young ..	b	69	41	0
Woll'gong	b	80	55	0
Moss Vale	b	69	45	0
Euston ..	b	73	45	0
Goulburn	b	68	43	0·21
Wagga ..	b	71	45	0
Cape Geo.	b	76	53	0
Queanb'an	b	72	42	0
Deniliquin	b	73	45	0
Albury ..	b	68	41	0 07
Bodalla ..	b	82	48	0
Cooma ..	b	67	29	0
Eden	c	76	50	0
Gabo Isld	q	69	45	0



WEATHER MAP.

7 DEC., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain
Tenterfi'ld	b	83	40	0
Grafton ..	b	90	65	0
Inverell ..	b	85	50	0
Bourke ..	b	86	59	0
Narrabri ..	b	106	51	0
Armidale .	b	77	51	0
Gunnedah	b	98	54	0
Tamworth	..	..	..	..
P Macqrie	b	73	55	0
Murr'undi	b	82	50	0
Cassilis ..	b	94	49	0
Mus'brook	b	95	57	0
Dubbo ..	b	81	59	0
Mudgee ..	b	86	53	0
Maitland ..	b	79	57	0
Newcastle	b	82	63	0
Orange ..	b	69	39	0
Bathurst ..	b	89	40	0
Mt Victoria	b	75	44	0
Forbes ..	b	76	49	0
SYDNEY ..	b	72	56	0
Wentw'th.	b	81	55	0
Young ..	b	71	45	0
Wol'gong	b	70	55	0
Moss Vale	b	75	45	0
Euston ..	b	85	48	0
Goulburn	b	75	42	0
Wagga ..	b	75	55	0
Cape Geo.	b	69	54	0
Queanb'an	b	77	47	0
Deniliquin	b	86	42	0
Albury ..	b	75	43	0
Bodalla ..	..	..	..	..
Cooma ..	b	74	36	0
Eden	b	73	50	0
Gabo Isld	b	61	57	0

16 29·90 F 55.
For example, *recds:* Fine, wind North; 16 miles per hour; Bar. 29·90, falling; temperature 55.

0 29·81 — 84

W — E

S

GULF OF CARPENTARIA.

PD

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664.
Average of previous 18 Years for period 1 Jan. to 1 Dec., 41·357.
Total Rainfall from 1 Jan. to 7 December .. .. 58·386.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate heavy very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

AS 8

L. Torrens

42 30·02 F 80 BO

Fine—calm generally

W 14 30·14 F 77

8 30·03 — 79 A

0 30·18 F 76 D

0 30·07 R 68 AA

CB No rept.

13 30·06 F 63 M

13 30·06 F 59 P

23 30·06 F 63

23 29·87 F 59 WP

E 14 29·96 R 64

GO 4 29·92 R 61

C 0 30·03 R 65

S 5 30·04 R 72

N 5 30·03 R 72

PM 28 30·07 R 72

G 0 30·08 R 87

B No report

R

Bar. has risen about ·20

SMOOTH SEA

WEATHER MAP,

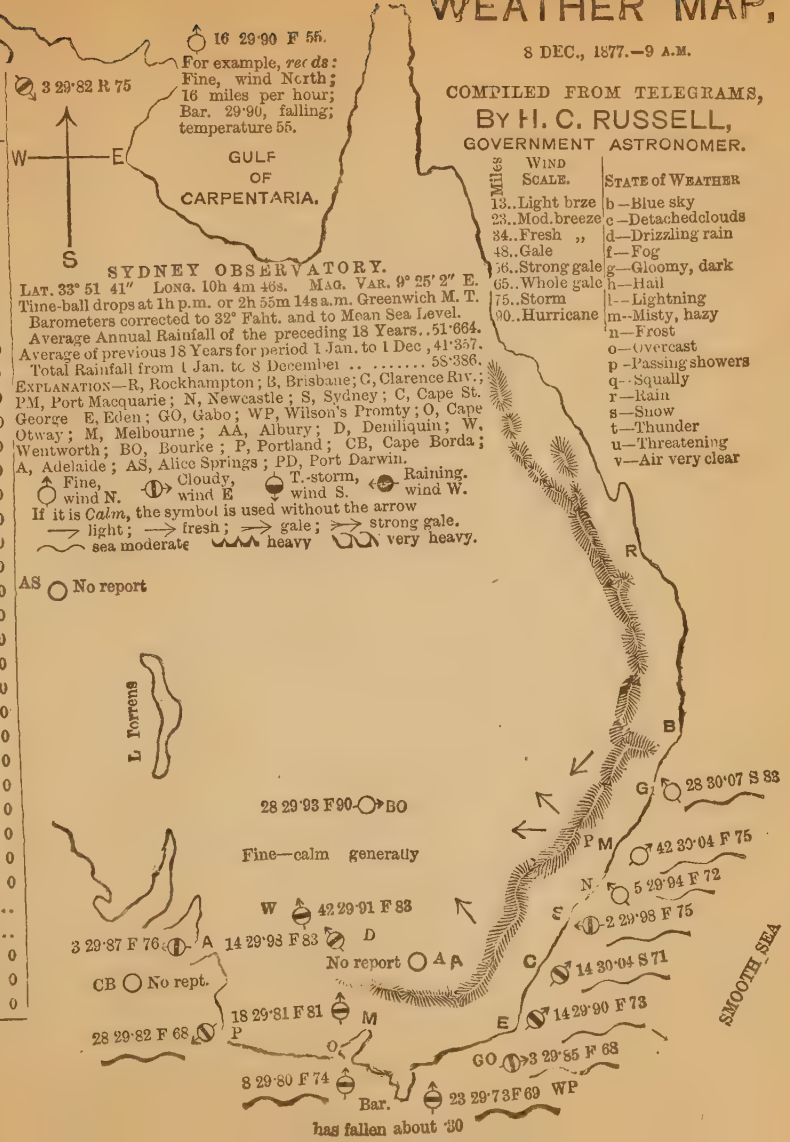
8 DEC., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterfi'ld ..	..	..	..	..
Grafton ..	b	90	65	0
Inverell ..	b	85	50	0
Bourke ..	b	100	67	0
Narrabri ..	b	107	69	0
Armidale .	b	80	52	0
Gunnedah ..	..	..	..	..
Tamworth ..	..	..	..	..
P Macqrie	b	81	64	0
Murr'undi	b	89	58	0
Cassilis ..	b	104	58	0
Mus'brook	b	108	63	0
Dubbo ..	b	88	63	0
Mudgee ..	b	92	54	0
Maitland ..	b	89	64	0
Newcastle	b	79	65	0
Orange ..	b	87	43	0
Bathurst ..	b	94	50	0
MtVictoria	b	85	55	0
Forbes ..	b	83	54	0
SYDNEY ..	c	76	63	0
Wentw'th.	c	95	67	0
Young ..	o	86	52	0
Woll'gong	b	84	59	0
Moss Vale	b	83	51	0
Euston ..	b	102	68	0
Goulburn	b	88	50	0
Wagga ..	o	86	57	0
Cape Geo.	c	89	62	0
Queanb'an	c	91	55	0
Deniliquin	o	95	64	0
Albury ..	..	..	..	..
Bodalla ..	..	..	..	..
Cooma ..	c	83	60	0
Eden	c	75	56	0
Gabo Isld.	c	71	57	0



WEATHER MAP,

10 DEC., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	b	91	47	0·30
Grafton ..	..	.	..	..
Inverell ..	b	85	50	0
Bourke ..	b	111	77	0
Narrabri..	..	..	..	..
Armidale.	g	87	51	0·97
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P Macqrie	g	78	67	1·29
Murr'undi	g	92	67	0·28
Cassilis ..	g	99	61	0
Mus'brook	u	107	57	0·60
Dubbo ..	b	97	70	0
Mudgee ..	u	100	62	0·21
Maitland..	u	98	64	0·35
Newcastle	g	96	61	0·66
Orange ..	..	..	..	..
Bathurst..	..	..	..	..
MtVictoria	u	93	45	0·15
Forbes ..	..	..	..	..
SYDNEY ...	r	81	56	0·31
Wentw'th.	c	85	53	0
Young ..	..	..	..	..
Woll'gong	c	81	55	0
Moss Vale	r	78	47	0·21
Euston ..	b	91	52	0
Goulburn	g	71	54	0·26
Wagga ..	b	95	60	0
Cape Geo.	c	70	54	0·20
Queanb'an	..	..	..	..
Deniliquin	b	97	49	0
Albury ..	b	95	53	0
Bodalla ..	p	74	52	0
Cooma ..	c	71	44	0·07
Eden	b	75	50	0
Gabo Isld	b	62	54	0

PD

No report

W — E

S

16 29·90 F 55.

For example, *reads:* Fine, wind North; 16 miles per hour; Bar. 29·90, falling temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 18 Years..51·664.

Average of previous 18 Years for period 1 Jan. to 1 Dec., 41·357.

Total Rainfall from 1 Jan. to 10 December ..... 58·606.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. — Cloudy, wind E — T.-storm, wind S. — Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate — heavy — very heavy.

Miles	Wind Scale.
13..	Light brze
23..	Mod. breeze
34..	Fresh „
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90 .	Hurricane

State of Weather	
b	Blue sky
c	Detachedclouds
d	Drizzling rain
f	Fog
g	Gloomy, dark
h	Hail
i	Lightning
m	Misty, hazy
n	Frost
o	Overcast
p	Passing showers
q	Squally
r	Rain
s	Snow
t	Thunder
u	Threatening
v	Air very clear

AS 0

R

L Torrens

B No report

G 14 30·07 S 67

42 30·02 R 80 BO

Generally cloudy—Like rain

P M 28 29·98 F 69

N 9 30·22 R 62

S 13 30·20 R 60

W 14 30·29 R 69

Showery

3 30·29 R 69 A 14 30·30 R 65 D

28 30·23 — 69 A A

C 14 30·24 R 60

CB 23 30 30

18 30·33 R 58 M

E 14 30·20 R 71

SMOOTH SEA

23 30·35 R 62 P

O

GO 14 30·14 R 60

8 30·35 R 58

23 30·15 R 53 WP

Bar. harison about ·50

WEATHER MAP,

11 DEC., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	p	81	45	0·20
Grafton ..	g	88	67	0
Inverell ..	..	..	..	..
Bourke ..	b	99	72	0
Narrabri ..	c	93	66	0
Armidale .	c	81	53	0·05
Gunnedah	g	96	63	0
Tamworth	..	..	..	..
P Macqrie	g	74	44	0·25
Murr'undi	b	76	55	0
Cassilis ..	b	99	70	0
Mus'brook	b	72	59	0
Dubbo ..	b	92	63	0
Mudgee ..	b	83	59	0
Maitland ..	c	74	63	0
Newcastle	b	88	61	0
Orange ..	b	80	60	0
Bathurst.	b	80	40	0
MtVictoria	g	64	48	0·17
Forbes ..	b	85	61	0
SYDNEY ..	c	67	60	0·16
Wentw'th.	b	88	48	0
Young ..	b	81	56	0
Woll'gong	b	82	55	0
Moss Vale	b	68	48	0
Euston ..	b	91	58	0
Goulburn	b	64	49	0
Wagga ..	b	84	60	0
Cape Geo.	b	67	58	0
Queanb'an	..	..	..	..
Deniliquin	b	88	57	0
Albury ..	b	89	67	0
Bodalla ..	b	78	40	0
Cooma ..	b	77	33	0
Eden	b	72	49	0
Gabo Isld.	b	62	51	0

PD

No report

W E S

16 29·90 F 55.

For example, *reads:* Fine, wind North; 16 miles per hour; Bar. 29·90, falling temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 18 Years..51·664.

Average of previous 18 Years for period 1 Jan. to 1 Dec., 41·357.

Total Rainfall from 1 Jan. to 11 December ..... 58·854.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. — Cloudy, wind E — T.-storm, wind S. — Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate — heavy — very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R

AS 0

L Torrens

B No report

Showery

G 23 30·15 R 65

56 30·04 R 81 BO

Fine generally

Hot Wind

P M 28 30·24 R 70

N 5 30·21 S 71

S 9 30·29 R 65

about ·10

W 14 30·23 F 77

18 30·18 F 81 A

0 30·31 R 76 D

0 30·28 R 72 A A

C 0 30·28 R 64

has risen

SMOOTH SEA

Bar.

CB 23 30 14F

13 30·30 F 61 M

E 14 30·05 F 70

28 30·30 F 60 P

O

GO 2 30·18 R 61

Bar.

has fallen about ·20

8 30·32 F 63

18 30·17 R 54 WP

WEATHER MAP,

12 DEC., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain
Tenterfi'ld	b	71·35		0
Grafton ..	c	83·62		0
Inverell ..	b	86·53		0
Bourke ..	b	90·76		0
Narrabri..	b	91·64		0
Armidale.	b	73·49		0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P Macqrie	..	..	..	..
Murr'undi	b	82·52		0
Cassilis ..	b	85·53		0
Mus'brook	b	95·55		0
Dubbo ..	b	88·65		0
Mudgee ..	b	90·57		0
Maitland..	b	79·57		0
Newcastle	b	83·60		0
Orange ..	b	77·44		0
Bathurst..	b	92·41		0
MtVictoria	b	73·44		0
Forbes ..	b	84·58		0
SYDNEY ..	b	72·58		0
Wentw'th.	b	97·72		0
Young ..	b	85·54		0
Wol'gong	b	74·0		0
Moss Vale	b	77·51		0
Euston ..	b	101·66		0
Goulburn	b	79·46		0
Wagga ..	b	88·62		0
Cape Geo.	b	77·58		0
Queanb'an	b	88·55		0
Deniliquin	b	97·64		0
Albury ..	b	93·51		0
Bodalla ..	b	80·46		0
Cooma ..	b	82·39		0
Eden	b	73·54		0
Gabo Isld.	b	73·59		0

PD

No report

W — E

S

16 29·90 F 55.

For example, *read:* Fine, wind North; 16 miles per hour; Bar. 29·90, falling temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664.
Average of previous 18 Years for period 1 Jan. to 1 Dec., 41·357.
Total Rainfall from 1 Jan. to 12 December ..... 58·854.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. — Cloudy, wind E — T.-storm, wind S. — Raining. wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

WIND SCALE.

Miles	
13..	Light brze
23..	Mod. breeze
34..	Fresh „
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS 8

L Torrens

B No report

G 28 30·18 R 73

56 30·09 R 86 BO

Fine—calm generally

PM No report

N 7 30·21 S 72

S 2 30·28 S 72

W 42 30·07 F 91

13 29·96 F 94 A 14 30·23 F 84 D

14 30·24 F 76 AA

C 28 30·29 R 69

CB 8 29 93 F

Bar. has fallen about ·20

13 30·12 F 74 M

23 30·03 F 68 P

O

E 14 30·18 R 72

SMOOTH SEA

GO 8 30·08 F 67

13 30·10 F 64

23 30·06 F 62 WP Foggy

WEATHER MAP,

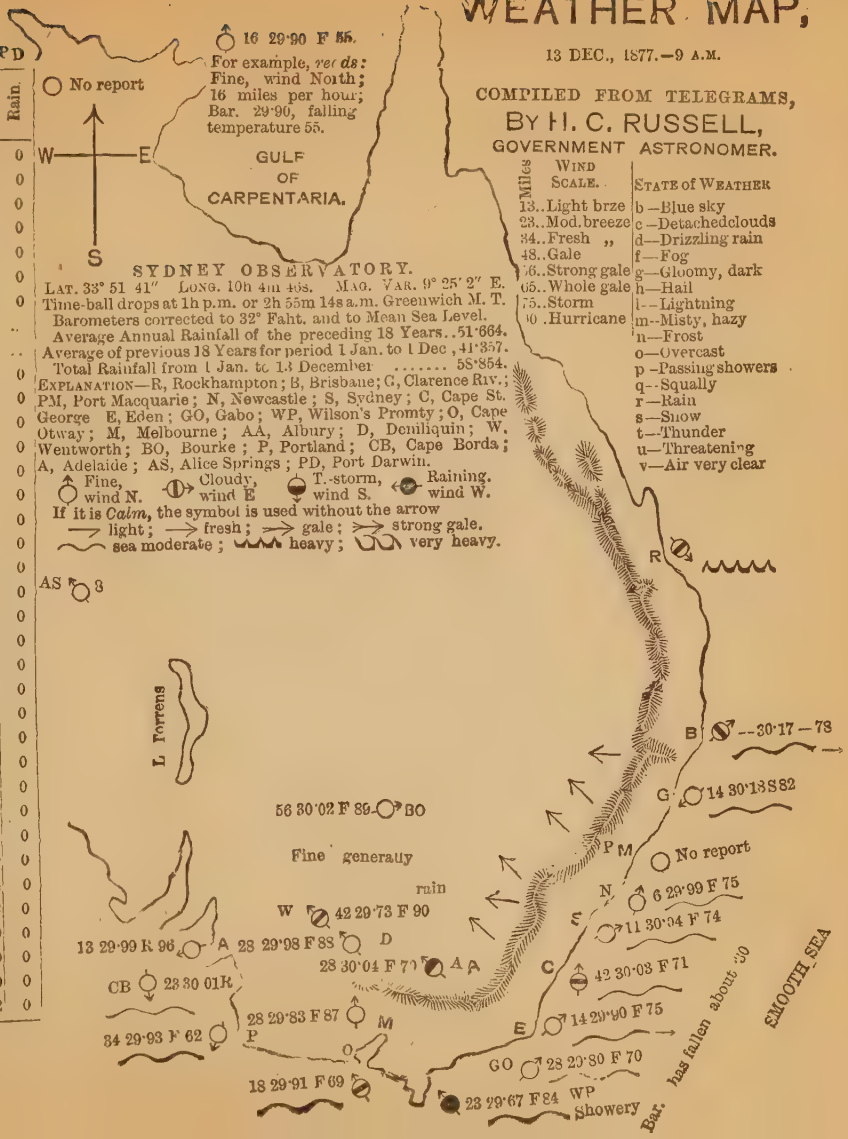
13 DEC., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain
Tenterfield	b	71	40	0
Grafton ..	b		0 58	0
Inverell ..	b	83	53	0
Bourke ..	b	102	76	0
Narrabri ..	b	110	70	0
Armidale ..	b	89	0	0
Gunnedah	b	96	0	0
Tamworth	..	..	..	..
P Macqrie	..	..	..	..
Murr'undi	b	87	57	0
Cassilis ..	b	98	59	0
Mus'brook	b	73	60	0
Dubbo ..	b	87	64	0
Mudgee ..	b	89	63	0
Maitland ..	b	83	62	0
Newcastle	b	82	66	0
Orange ..	b	83	49	0
Bathurst ..	b	99	51	0
Mt Victoria	b	82	49	0
Forbes ..	b	87	62	0
SYDNEY ..	b	74	62	0
Wentw'th.	c	104	78	0
Young ..	c	89	58	0
Woll'gong	b	78	61	0
Moss Vale	b	79	55	0
Euston ..	b	104	78	0
Goulburn	b	88	49	0
Wagga ..	r	94	69	0
Cape Geo.	c	76	62	0
Queanb'an	b	93	0	0
Deniliquin	b	102	74	0
Albury ..	t	96	62	0
Bodalla ..	b	85	50	0
Cooma ..	c	85	50	0
Eden	b	76	59	0
Gabo Isld.	c	72	62	0



WEATHER MAP,

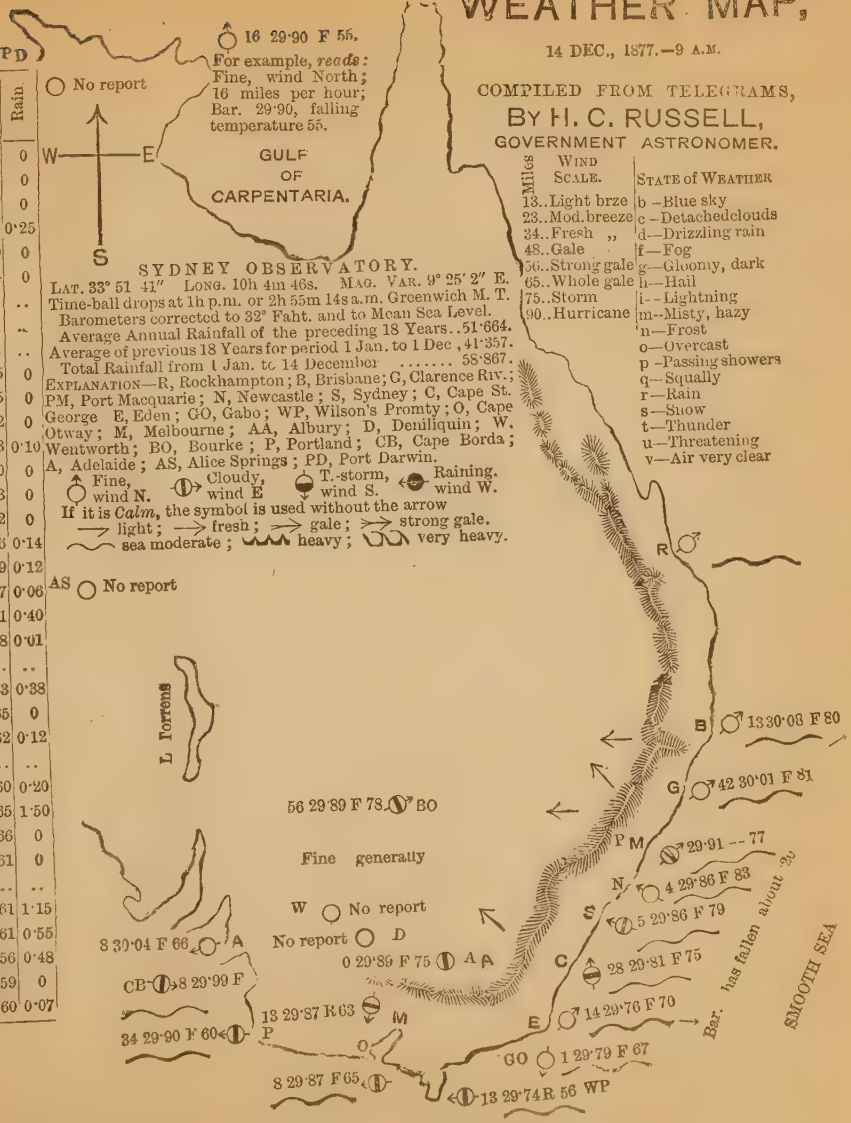
14 DEC., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	b	81	39	0
Grafton ..	b	..	60	0
Inverell ..	b	85	55	0
Bourke ..	u	108	74	0·25
Narrabri..	b	109	79	0
Armidale.	b	81	54	0
Gunnedah	..	...	..	..
Tamworth	..	..	..	..
P Macqrie	..	..	..	..
Murr'undi	c	90	65	0
Cassilis ..	b	97	65	0
Mus'brook	b	102	72	0
Dubbo ...	u	90	73	0·10
Mudgee ..	u	93	70	0
Maitland..	b	92	73	0
Newcastle	b	86	62	0
Orange ...	b	85	56	0·14
Bathurst..	b	96	59	0·12
MtVictoria	b	89	57	0·06
Forbes ...	b	86	61	0·40
SYDNEY ...	c	80	68	0·01
Wentw'th.	..	..	..	..
Young ...	b	80	63	0·38
Woll'gong	b	81	65	0
Moss Vale	b	84	62	0·12
Euston ...	..	...	..	..
Goulburn	c	86	60	0·20
Wagga ...	b	88	65	1·50
Cape Geo.	c	77	66	0
Queanb'an	c	85	61	0
Deniliquin	...	..	..	..
Albury ..	c	86	61	1·15
Bodalla ...	b	85	61	0·55
Cooma ..	b	83	56	0·48
Eden	b	79	59	0
Gabo Isld.	b	85	60	0·07

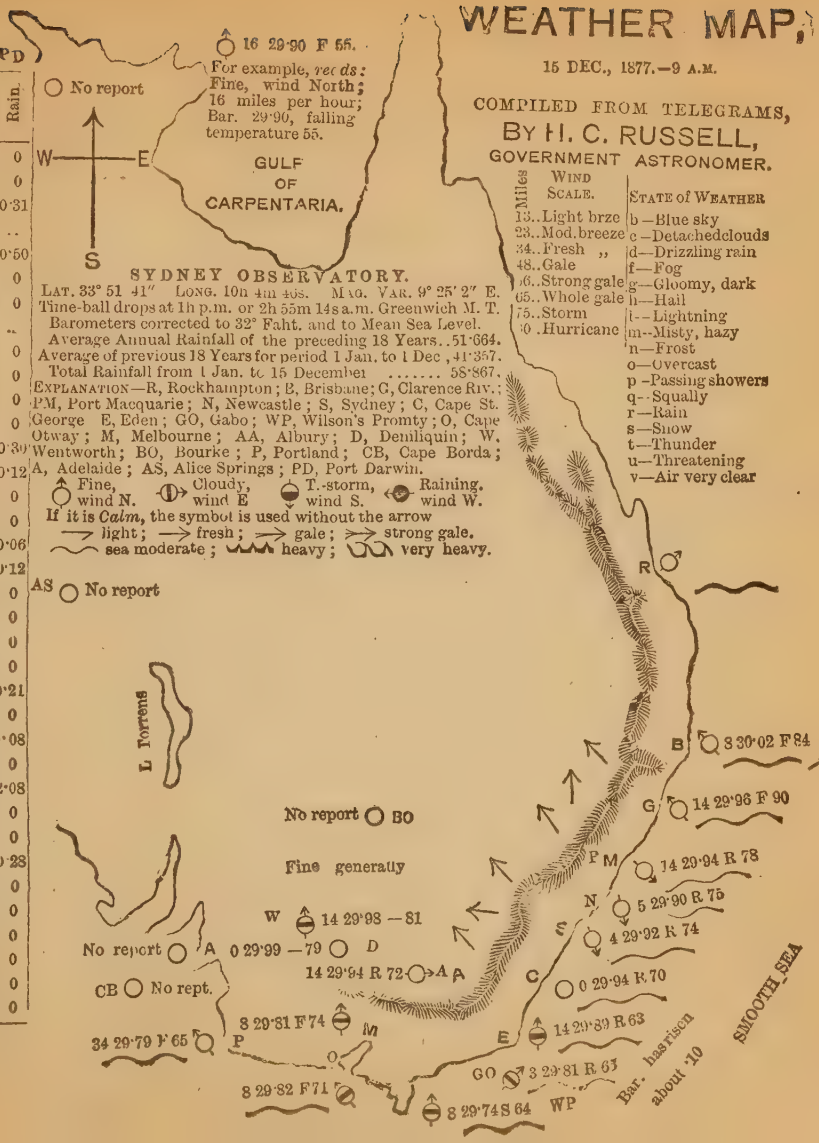


WEATHER MAP,

15 DEC., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	b	86	50	0
Grafton ..	b	..	60	0
Inverell ..	b	91	61	0·31
Bourke ..	..	..	..	..
Narrabri ..	c	100	80	0·50
Armidale.	b	83	54	0
Gunnedah	b	93	65	0
Tamworth	..	..	..	..
P Macqrie	b	85	65	0
Murr'undi	b	88	66	0
Cassilis ..	b	79	60	0
Mus'brook	b	81	60	0
Dubbo ..	b	101	65	0·30
Mudgee ..	b	87	61	0·12
Maitland..	b	99	71	0
Newcastle	b	98	67	0
Orange ..	b	78	53	0·06
Bathurst..	b	102	59	0·12
Mt Victoria	b	90	59	0
Forbes ..	b	81	67	0
SYDNEY ..	b	91	65	0
Wentw'th.	m	91	62	0
Young ..	b	90	59	0·21
Wolf'gong	b	83	62	0
Moss Vale	b	88	61	0·08
Euston ..	b	92	54	0
Goulburn	b	89	50	2·08
Wagga ..	b	93	57	0
Cape Geo.	b	84	63	0
Queanb'an	c	87	60	0·28
Deniliquin	b	95	59	0
Albury ..	b	90	52	0
Bodalla ..	b	80	58	0
Cooma ..	o	80	49	0
Eden	o	76	52	0
Gabo Isld	o	73	59	0



WEATHER MAP,

17 DEC., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	b	71	40	0·20
Grafton ..	b	..	65	0
Inverell ..	b	91	56	1·15
Bourke ..	b	92	66	0
Narrabri ..	b	99	66	0·30
Armidale ..	b	79	57	0·83
Gunnedah	b	89	63	0·41
Tamworth ..	..	..	..	..
P Macqrie	g	78	68	0·20
Murr'ndi	b	84	60	1·12
Cassilis ..	b	78	61	0
Mus'b'rook	b	109	65	0·55
Dubbo ..	o	90	61	0
Mudgee ..	b	97	59	0·03
Maitland ..	g	92	70	0·35
Newcastle	c	93	67	0
Orange ..	b	74	44	0
Bathurst ..	b	98	49	1·45
MtVictoria	b	92	51	0·50
Forbes ..	b	75	56	0
SYDNEY ..	o	88	67	0·29
Wentw'th.	b	94	42	0
Young ..	..	..	..	..
Wol'gong	b	86	60	0·77
Moss Vale	b	81	53	0·08
Euston ..	b	95	46	0
Goulburn	b	77	46	0·27
Wagga ..	b	94	55	0
Cape Geo.	c	89	62	0
Queanb'an	b	90	49	0·20
Deniliquin	b	95	50	0
Albury ..	b	93	43	0
Bodalla ..	..	..	..	..
Cooma ..	b	74	36	0
Eden	b	82	56	0
Gabo Isld	..	..	..	..

Miles	Wind Scale.	State of Weather
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detached clouds
34..	Fresh ,,	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	i—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

PD

No report

W — E

S

16 29·90 F 55.

For example, *recds:* Fine, wind North; 16 miles per hour; Bar. 29·90, falling temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664.
Average of previous 18 Years for period 1 Jan. to 1 Dec., 41·357.
Total Rainfall from 1 Jan. to 17 December ..... 59·160.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George; E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

AS 3

R No report

B No report

G 42 29·87 F 73

PM 28 29·89 F 71

N 7 29·76 F 71

S 4 29·21 F 71

C 0 29·92 F 69

E 23 29·77 F 73

GO No report

WP 18 29·79 R 59

L. Torrens

14 29·90 — 77 BO

Fine generally

W 30·03 R 63

D

A 14 30·05 R 63

0 29·96 R 66 A A

8 29·90 S 70

CB 13 29·87 F

13 29·95 R 61 M

23 29·89 R 58 P

8 29·92 R 64

Harrison Bar.

about ·10

SMOOTH SEA

WEATHER MAP,

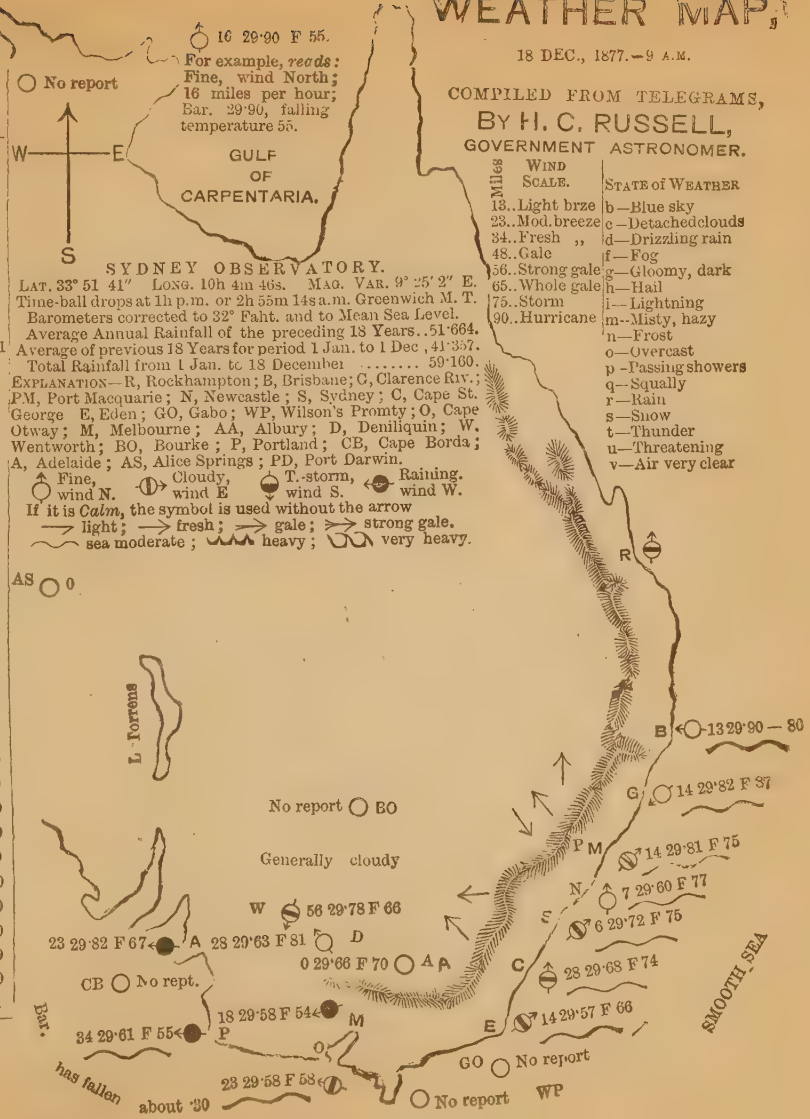
18 DEC., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Tenterfield	b	91	50	0
Grafton ..	c	..	64	0
Inverell ..	c	88	59	0
Bourke ..	..	..	..	..
Narrabri ..	c	105	69	0
Armidale ..	c	83	60	0
Gunnedah	c	96	62	0
Tamworth	..	..	..	..
P Macqrie	g	81	67	0·01
Murr'undi	b	90	61	0
Cassilis ..	..	..	..	..
Mus'brook	b	101	64	0
Dubbo ..	b	86	65	0
Mudgee ..	c	90	59	0
Maitland ..	b	89	68	0
Newcastle	b	82	64	0
Orange ..	b	78	46	0
Bathurst ..	c	90	50	0
Mt Victoria	b	86	52	0
Forbes ..	c	76	57	0
SYDNEY ..	c	76	68	0
Wentw'th.	c	91	64	0
Young ..	b	81	51	0
Wolt'gong	b	79	63	0
Moss Vale	c	92	58	0
Euston ..	b	93	64	0
Goulburn	g	83	51	0
Wagga ..	g	84	55	0
Cape Geo.	c	77	64	0
Queanb'an	b	84	54	0
Deniliquin	c	89	65	0
Albury ..	c	82	51	0
Bodalla ..	c	78	48	0
Cooma ..	c	82	46	0
Eden	g	76	57	0
Gabo Isld	..	..	..	..



WEATHER MAP,

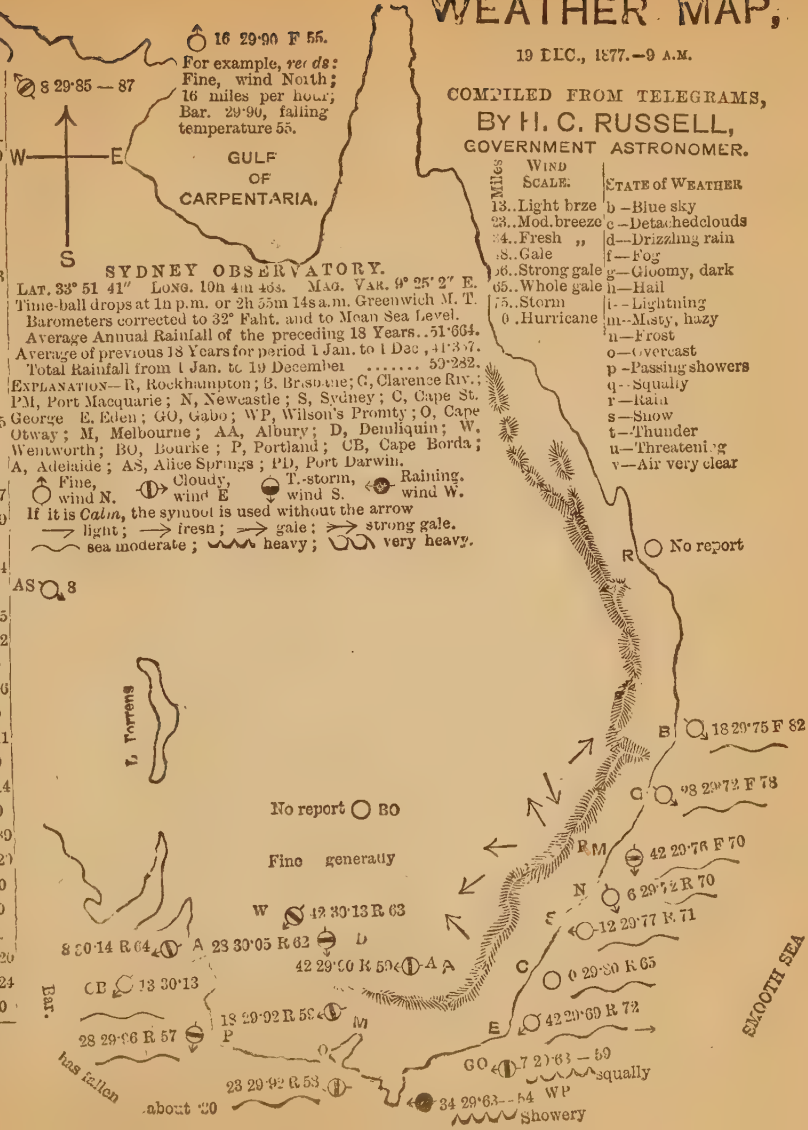
19 DEC., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	b	81 39		0·50
Grafton ..	c	.. 71		0
Inverell ..	..	.. ..		..
Bourke ..	..	.. ..		..
Narrabri..	..	.. ..		..
Armidale.	b	82 60		0·63
Gunnedah	b	77 64		0
Tamworth	..	.. ..		..
P Macqrie	c	79 63		0
Murr'undi	b	92 55		0
Cassilis ..	..	.. ..		..
Mus'brook	b	106 80		0·15
Dubbo ..	b	92 65		0
Mudgee ..	b	93 60		0
Maitland..	b	90 61		0·27
Newcastle	b	81 60		0·00
Orange ..	c	83 44		0
Bathurst..	b	92 48		0·04
MtVictoria	c	88 47		0
Forbes ..	c	77 49		0·05
SYDNEY ..	b	80 63		0·12
Wentw'th.	c	91 52		0
Young ..	c	87 50		0·16
Wol'gong	c	81 59		0
Moss Vale	c	86 51		0·11
Euston ..	b	80 51		0
Goulburn	b	87 50		0·14
Wagga ..	b	83 55		0
Cape Geo.	b	84 59		0·30
Queanb'an	b	87 52		0·20
Deniliquin	c	86 50		0
Albury ..	c	83 49		0
Bodalla ..	..	.. ..		..
Cooma ..	c	84 49		0·20
Eden	b	78 54		0·24
Gabo Isld	c	80 53		0



WEATHER MAP,

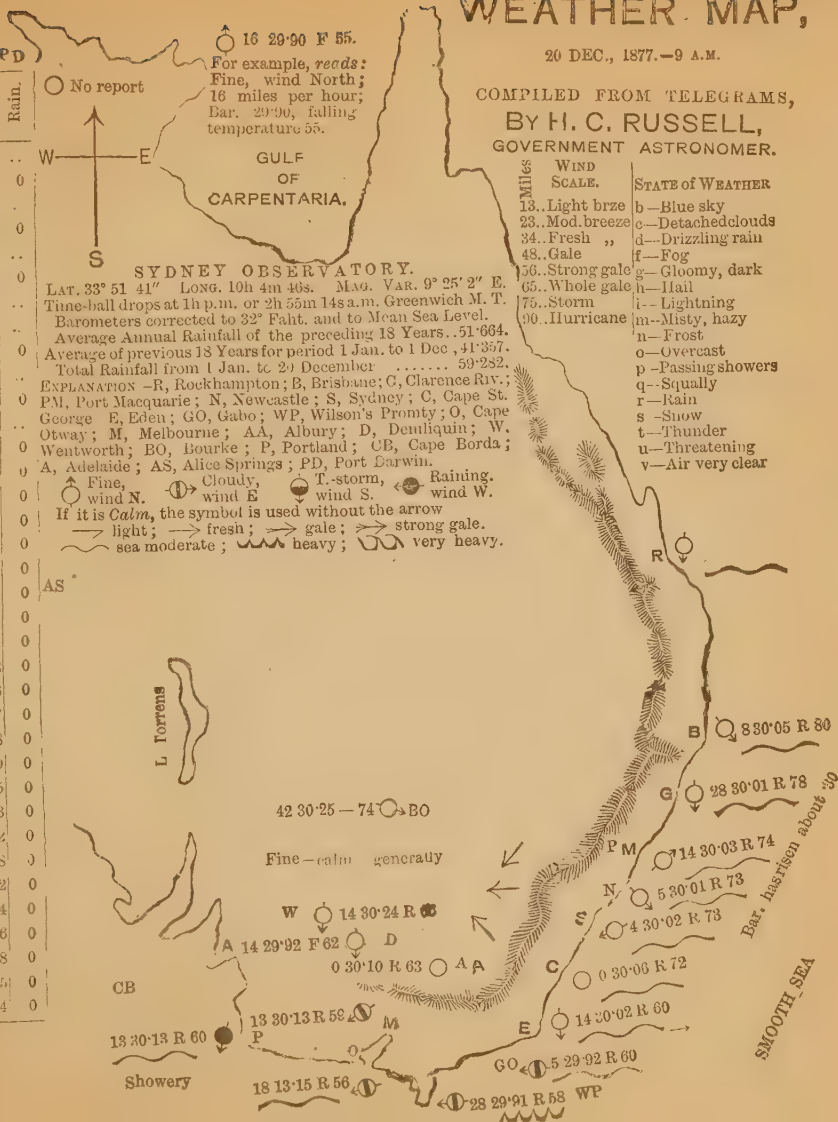
20 DEC., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterfield	..	..	..	..
Grafton	c	..	64	0
Inverell	..	..	..	.
Bourke	b	86	61	0
Narrabri	..	..	..	..
Armidale	b	77	60	0
Gunnedah	..	.	..	..
Tamworth	..	..	..	..
P. Macqrie	b	77	69	0
Murr'undi	..	..	..	..
Cassilis	b	95	51	0
Mus'brook	..	..	..	..
Dubbo	b	83	61	0
Mudgee	b	82	51	0
Maitland	b	82	62	0
Newcastle	b	79	60	0
Orange	b	69	40	0
Bathurst	c	86	43	0
MtVictoria	b	72	45	0
Forbes	b	79	61	0
SYDNEY	b	79	61	0
Wentw'th.	b	91	52	0
Young	b	72	46	0
Wol'gong	b	74	57	0
Moss Vale	b	75	48	0
Euston	b	81	50	0
Goulburn	b	87	45	0
Wagga	b	80	53	0
Cape Geo.	b	73	62	0
Queanbeyan	b	78	48	0
Deniliquin	b	78	52	0
Albury	b	76	44	0
Bodalla	b	85	46	0
Cooma	b	75	38	0
Eden	b	75	55	0
Gabo Isld	g	80	54	0



WEATHER MAP,

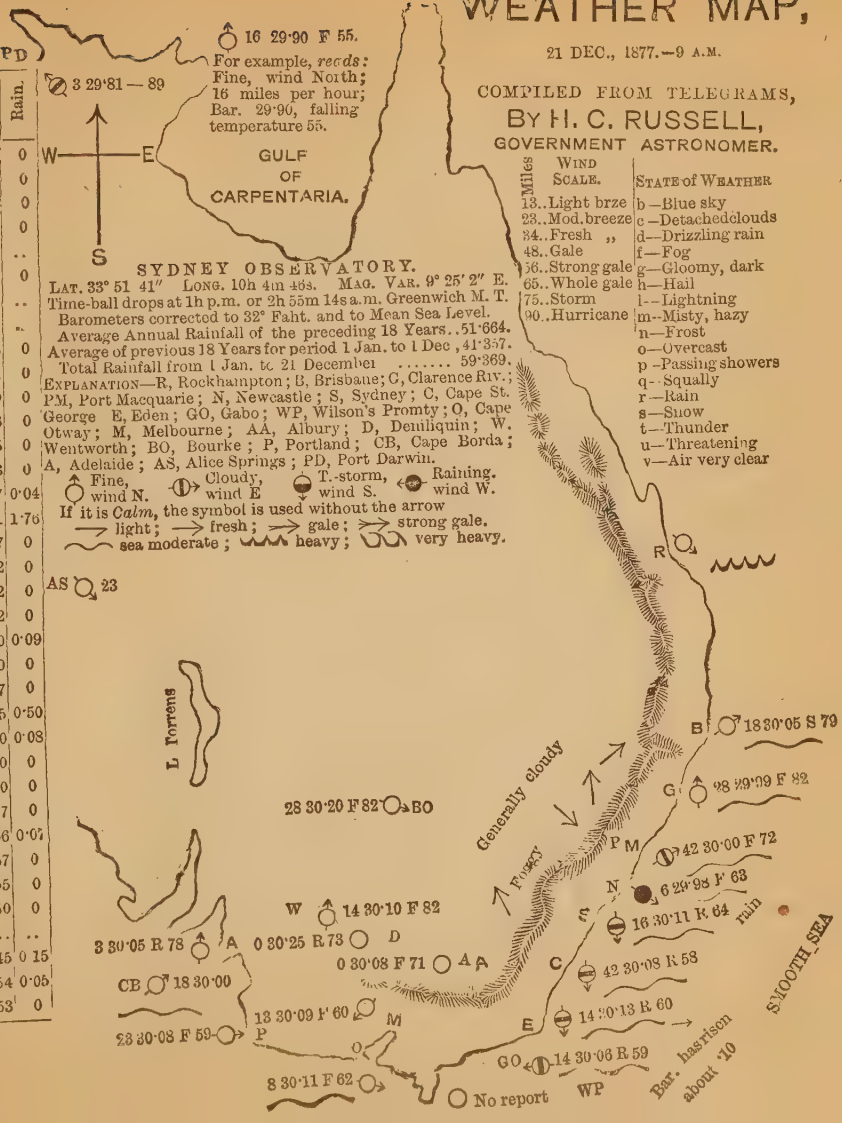
21 DEC., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfield	b	81	40	0
Grafton ..	b	..	70	0
Inverell ..	c	85	55	0
Bourke ..	b	95	68	0
Narrabri..	..	..	..	..
Armidale.	b	82	56	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	c	79	48	0
Murr'undi	g	90	61	0
Cassilis ..	b	106	60	0
Mus'brook	g	104	66	0
Dubbo ..	b	84	65	0
Mudgee ..	b	89	63	0
Maitland..	r	81	67	0·04
Newcastle	r	79	61	1·76
Orange ..	b	78	47	0
Bathurst..	b	91	52	0
MtVictoria	f	84	52	0
Forbes ..	b	80	62	0
SYDNEY ..	u	77	60	0·09
Wentw'th.	b	90	60	0
Young ..	b	81	57	0
Woll'gong	b	76	55	0·50
Moss Vale	d	82	50	0·08
Euston ..	b	92	60	0
Goulburn	c	82	50	0
Wagga ..	b	86	57	0
Cape Geo.	c	72	56	0·07
Queanb'an	b	85	57	0
Deniliquin	b	87	65	0
Albury ..	b	85	50	0
Bodalla ..	..	..	..	..
Cooma ..	c	80	45	0·15
Eden	u	78	54	0·05
Gabo Isld	g	65	53	0



WEATHER MAP,

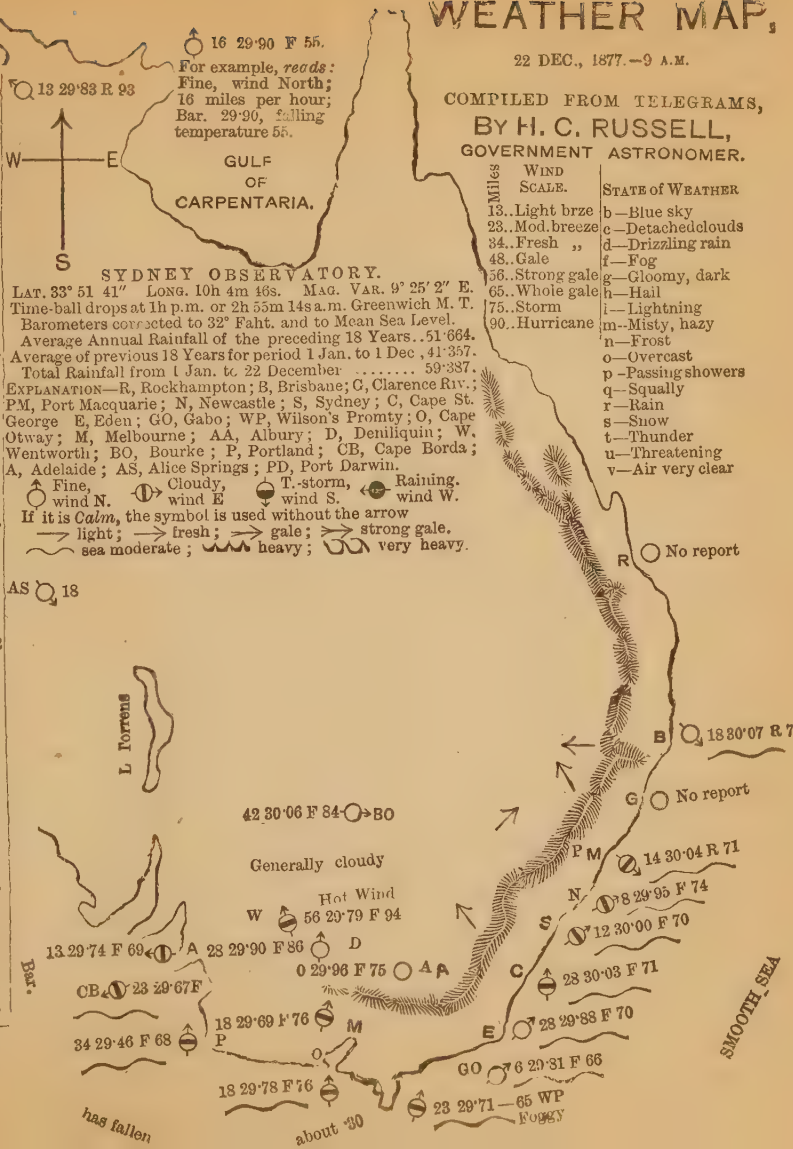
22 DEC., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tentérfi'ld	b	83	42	0
Grafton ..	b	..	68	1·61
Inverell ..	b	86	58	0
Bourke ..	b	100	70	0
Narrabri..	b	103	69	0
Armidale.	b	79	48	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	o	77	45	0·33
Murr'undi	b	80	55	0
Cassilis ..	b	84	64	0
Mus'brook	b	82	59	0
Dubbo ..	b	87	66	0
Mudgee ..	b	93	60	0
Maitland..	o	79	61	0·12
Newcastle	b	76	56	0·26
Orange ...	b	81	50	0
Bathurst..	b	94	49	0
MtVictoria	b	74	52	0
Forbes ...	b	84	64	0
SYDNEY ...	g	71	62	0·02
Wentw'th.	c	97	70	0
Young ...	b	84	57	0
Wol'gong	c	69	59	0
Moss Vale	b	..	57	0
Euston ...	b	101	70	0
Goulburn	b	70	53	0
Wagga ..	b	91	65	0
Cape Geo.	b	72	60	0
Queanb'an	b	81	59	0
Deniliquin	b	94	65	0
Albury ..	b	91	52	0
Bodalia ..	..	..	..	..
Cooma ..	b	72	50	0
Eden	b	74	58	0
Gabo Isld.	b	68	60	0



WEATHER MAP,

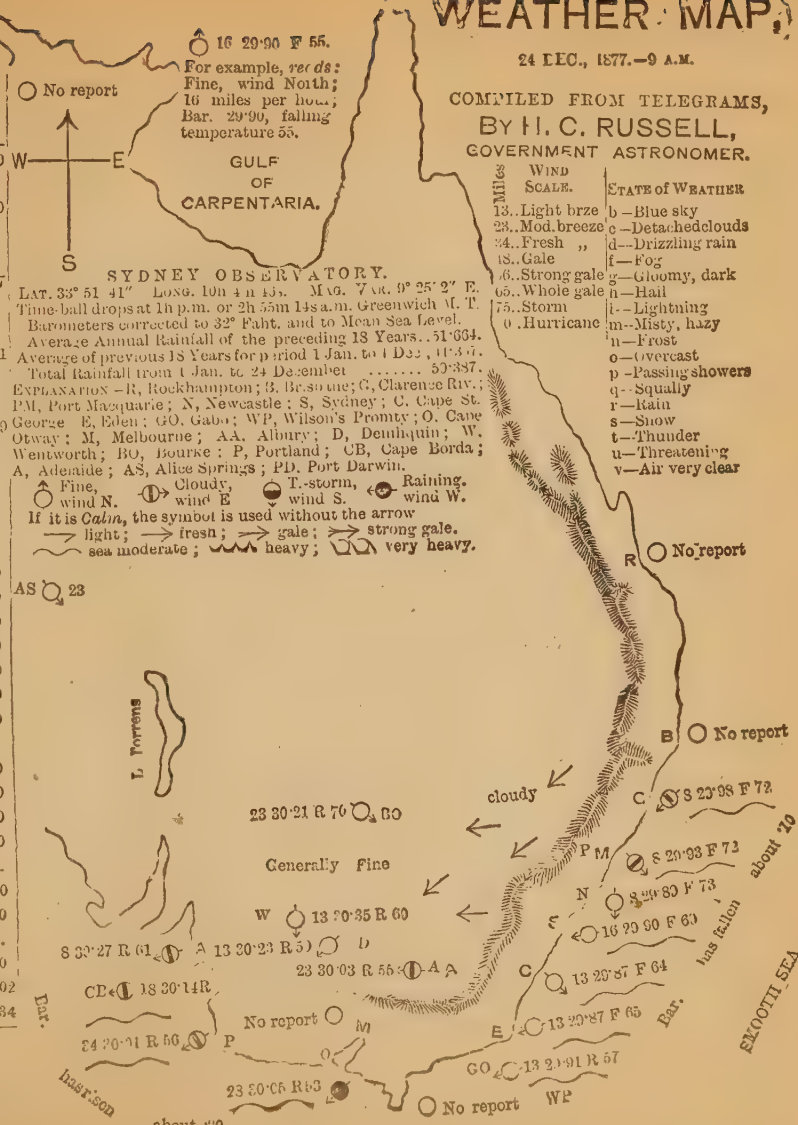
24 DEC., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain
Tenterfield	g	91 46		1·20
Grafton ..	g	.. 66		0
Inverell ..	b	86 57		0·70
Bourke ..	b	90 59		0
Narrabri ..	b	102 59		0
Armidale.	b	99 59		0·17
Gunnedah ..	..	.. ..		..
Tamworth ..	..	.. ..		.
P. Macquarie	o	75 65		0·01
Murr'undi	b	99 55		0
Cassilis ..	b	95 50		0
Mus'brook	b	103 58		0·09
Dubbo ..	b	92 62		0
Mudgee ..	b	91 50		0
Maitland..	b	101 62		0
Newcastle	b	96 57		0
Orange ..	b	95 41		0
Bathurst..	b	95 41		0
MtVictoria	b	84 45		0
Forbes ..	b	77 53		0
SYDNEY ..	b	97 59		0
Wentw'th.	b	85 48		0
Young ..	b	91 49		0
Wol'gong	b	91 55		0
Moss Vale	..	.. ..		..
Euston...	b	74 42		0
Goulburn	b	93 46		0
Wagga ..	b	80 53		0
Cape Geo.	c	67 56		0
Queanb'an	..	.. ..		..
Deniliquin	b	104 46		0
Albury ..	c	101 46		0
Bodalla ..	..	.. ..		..
Cooma ..	o	68 37		0
Eden	b	70 53		0·02
Gabo Isld	c	61 57		0·34



WEATHER MAP,

26 DEC., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther	Max.	Min.	Rain
Tenterfi'ld	b	79 30		0
Grafton ..	..	..	60	0
Inverell ..	b	85 50		0
Bourke ..	b	92 64		0
Narrabri..	b	103 59		0
Armidale.	b	81 53		0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	b	81 64		0
Murr'undi	b	86 51		0
Cassilis ..	b	92 51		0
Mus'brook	b	80 58		0
Dubbo ..	b	93 60		0
Mudgee ..	b	82 59		0
Maitland..	..	..	..	..
Newcastle	b	83 61		0
Orange ..	b	73 36		0
Bathurst..	..	..	..	..
MtVictoria.		..	..	..
Forbes ..	b	75 51		0
SYDNEY ..	b	80 58		0
Wentw'th.	b	86 56		0
Young ..	b	76 42		0
Woll'gong	b	76 54		0
Moss Vale	..	..	..	..
Euston ..	b	83 52		0
Goulburn	b	70 40		0
Wagga ..	b	80 47		0
Cape Geo.	..	..	..	..
Queanb'an	..	..	..	..
Deniliquin	b	79 52		0
Albury ..	b	74 41		0
Bodalla ..	..	..	..	..
Cooma ..	o	68 37		0
Eden	b	70 50		0
Gabo Isld	b	63 52		0

PD

No report

W — E

S

16 29·90 F 55.

For example, *reads:* Fine, wind North; 16 miles per hour; Bar. 29·90, falling temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 18 Years..51·664.
Average of previous 18 Years for period 1 Jan. to 1 Dec., 41·357.
Total Rainfall from 1 Jan. to 26 December ..... 59·387.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	Wind Scale.
13..	Light brze
23..	Mod. breeze
34..	Fresh "
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90 .	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

AS No report

L. Torrens

23 30·02 F 85 BO

FINE—CALM

W 13 29·94 F S2

No report A 8 29·93 F 72 D

— 29·97 F 66 AA

CB No rept.

No report M

23 29 69 F 48 P

No report

R No report

B No report

G 8 29·68 F 86

PM — 29·96 R 76

N 7 29·92 R 69

S 3 30 02 R 69

C No report

E 8 29·92 R 68

GO 18 29·85 F 62

13 29·81 — 58 WP

Bar. Harrison about 20

SMOOTH SEA

WEATHER MAP,

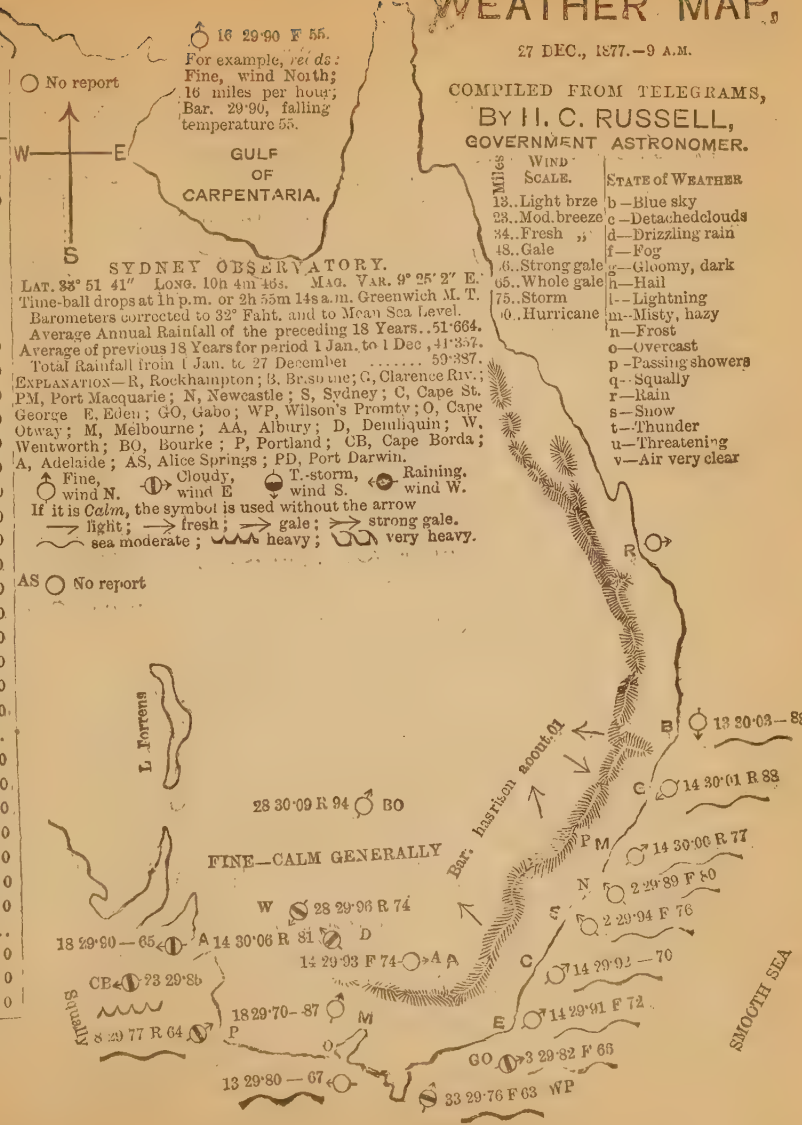
27 DEC., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	PD Rain
Tenterfi'ld	b	81	40	0
Grafton ..	b	96	65	0
Inverell ..	b	84	49	0
Bourke ..	b	105	73	0
Narrabri..	b	112	61	0
Armidale.	b	79	53	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	b	82	68	0
Murr'undi	b	91	56	0
Cassilis ..	b	98	56	0
Mus'brook	b	104	60	0
Dubbo ..	c	89	67	0
Mudgee ..	b	89	58	0
Maitland..	b	88	65	0
Newcastle	b	84	64	0
Orange ..	b	78	47	0
Bathurst..	b	92	48	0
MtVictoria	b	90	60	0
Forbes ..	b	82	64	0
SYDNEY ..	b	76	64	0
Wentw'th.	b	102	31	0
Young ..	c	91	58	0
Wol'gong	c	76	59	0
Moss Vale	..	..	..	..
Euston ..	b	102	59	0
Goulburn	b	84	46	0
Wagga ..	b	87	64	0
Cape Geo.	b	77	61	0
Queanb'an	b	88	55	0
Deniliquin	c	9[illegible]	70	0
Albury ..	b	89	54	0
Bodalla ..	..	..	..	..
Cooma ..	b	82	41	0
Eden	b	72	54	0
Gabo Isld	b	74	56	0



WEATHER MAP.

28 DEC., 1877.—9 A.M.

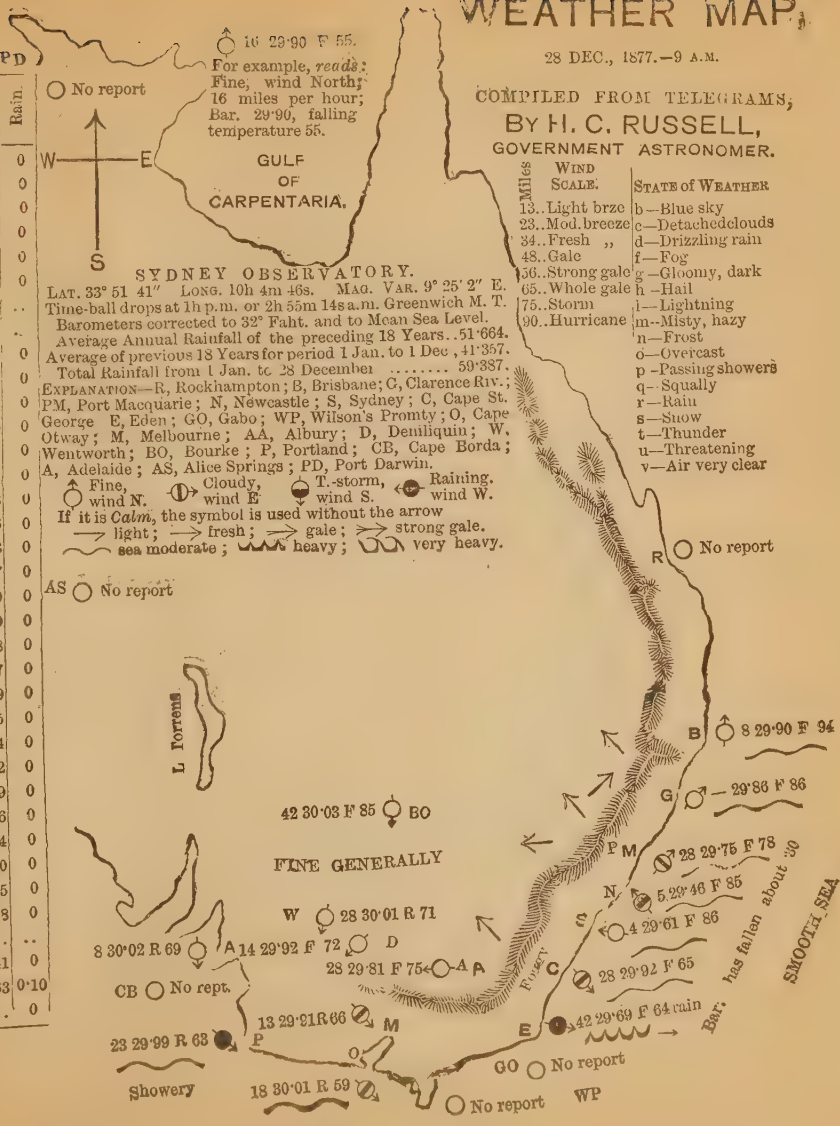
COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterfi'ld	b	91	45	0
Grafton ..	b	105	68	0
Inverell ..	b	93	51	0
Bourke ..	b	114	74	0
Narrabri ..	c	116	72	0
Armidale ..	g	90	69	0
Gunnedah ..	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	g	83	68	0
Murr'undi	b	97	67	0
Cassilis ..	b	97	61	0
Mus'brook	b	107	64	0
Dubbo ...	b	95	67	0
Mudgee ..	b	98	61	0
Maitland ..	g	92	62	0
Newcastle	c	87	66	0
Orange ...	b	88	53	0
Bathurst ..	b	100	57	0
MtVictoria	b	95	60	0
Forbes ...	b	94	69	0
SYDNEY ...	b	87	68	0
Wentw'th.	b	88	57	0
Young ...	b	96	59	0
Woll'gong	b	80	65	0
Moss Vale	b	94	64	0
Euston ...	b	96	62	0
Goulburn	b	99	59	0
Wagga ...	b	102	66	0
Cape Geo.	f	83	64	0
Queanb'an	b	98	60	0
Deniliquin	b	99	55	0
Albury ..	b	101	58	0
Bodalla ..	..	..	..	..
Cooma ..	c	95	41	0
Eden	r	78	63	0·10
Gabo Isld.	..	..	..	0

PD



WEATHER MAP,

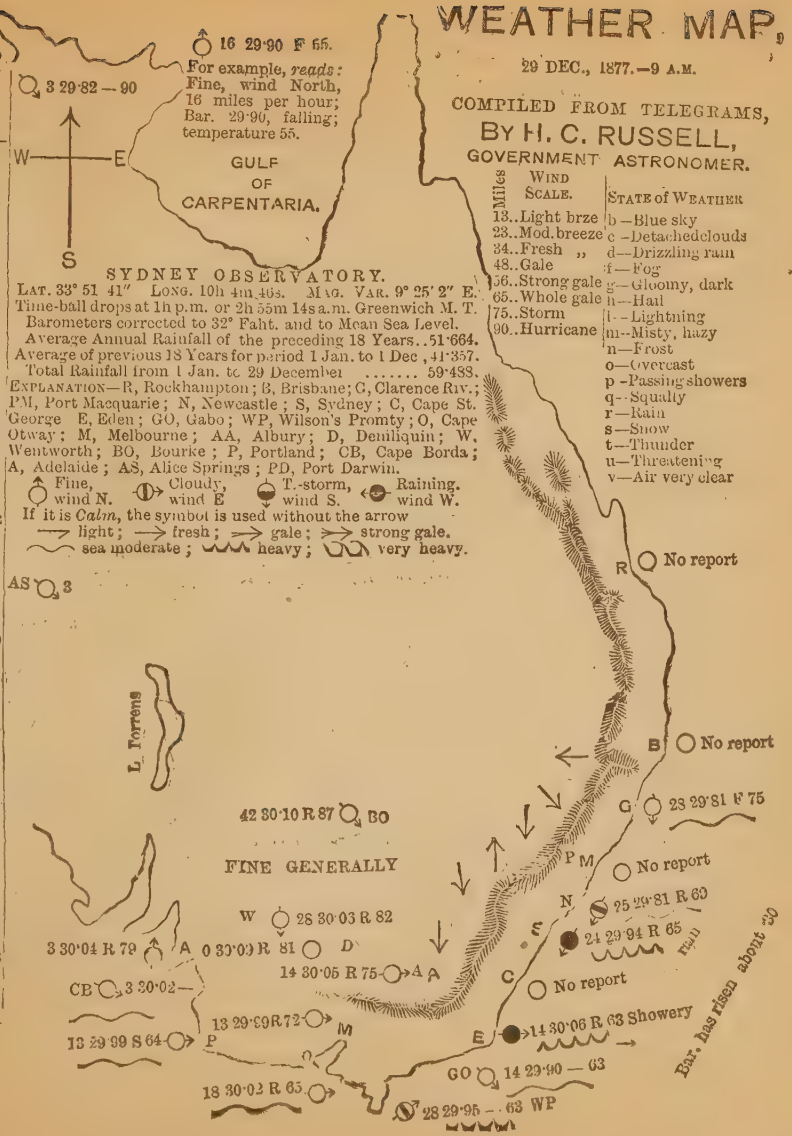
29 DEC., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterfi'ld	b	93	47	0
Grafton ..	c	113	69	0
Inverell ..	b	99	60	0
Bourke ..	b	102	72	0
Narrabri ..	b	110	71	0
Armidale.	b	94	65	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	..	..	..	..
Murr'undi	g	98	61	0
Cassilis ..	b	99	66	0
Mus'brook	g	107	63	0
Dubbo ..	b	98	69	0
Mudgee ..	b	92	65	0
Maitland..	d	102	69	0
Newcastle	g	105	65	0·22
Orange ..	b	80	52	0
Bathurst..	b	88	55	0
MtVictoria	g	86	52	0
Forbes ..	b	85	56	0
SYDNEY ..	r	96	65	0·10
Wentw'th.	b	89	63	0
Young ..	b	86	62	0
Woll'gong	c	78	61	0
Moss Vale	..	..	..	..
Euston ..	b	95	64	0
Goulburn	g	85	55	0
Wagga ..	b	91	63	0
Cape Geo.	..	.	..	..
Queanb'an	b	85	60	0
Deniliquin	b	93	62	0
Albury ..	b	99	53	0
Bodalla ..	..	..	..	..
Cooma ..	g	84	52	0·08
Eden	p	64	59	4·21
Gabo Isld	g	66	69	0

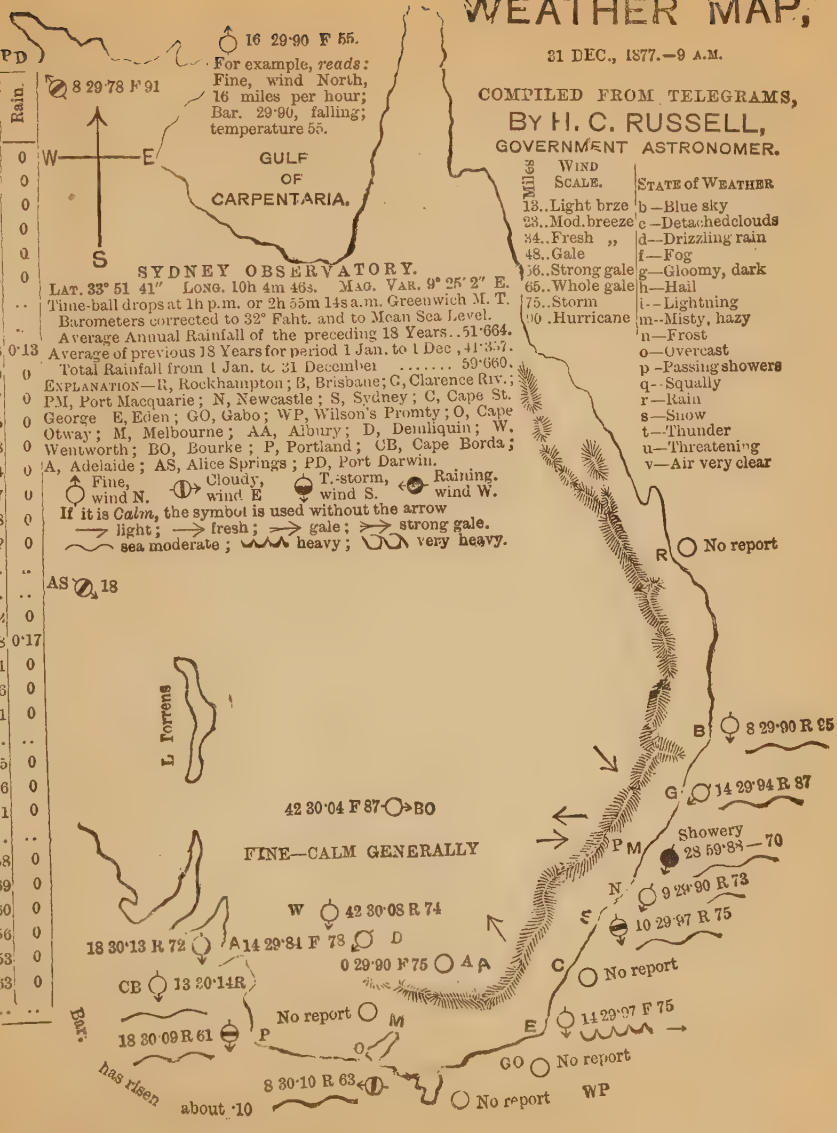


WEATHER MAP,

21 DEC., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	W'ther	Max.	Min.	Rain.
Tenterfi'ld	b	76	39	0
Grafton ..	c	101	65	0
Inverell ..	b	89	60	0
Bourke ..	b	104	77	0
Narrabri..	b	91	73	0
Armidale.	b	81	52	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	p	76	68	0·13
Murr'undi	u	80	60	0
Cassilis ..	b	88	67	0
Mus'brook	c	87	55	0
Dubbo ..	b	94	68	0
Mudgee ..	b	92	64	0
Maitland..	u	78	67	0
Newcastle	c	81	68	0
Orange ..	b	84	52	0
Bathurst..	..	..	..	..
Mt Victoria	..	..	..	..
Forbes ..	b	90	72	0
SYDNEY ..	u	78	68	0·17
Wentw'th.	b	110	61	0
Young ..	b	93	66	0
Wol'gong	b	76	61	0
Moss Vale	..	..	..	..
Euston ..	b	114	65	0
Goulburn	b	84	56	0
Wagga ..	b	95	71	0
Cape Geo.	..	..	..	..
Queanb'an	b	90	58	0
Deniliquin	b	107	69	0
Albury ..	b	103	60	0
Bodalla ..	b	87	56	0
Cooma ..	b	88	53	0
Eden	b	77	63	0
Gabo Isld	..	..	..	..



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